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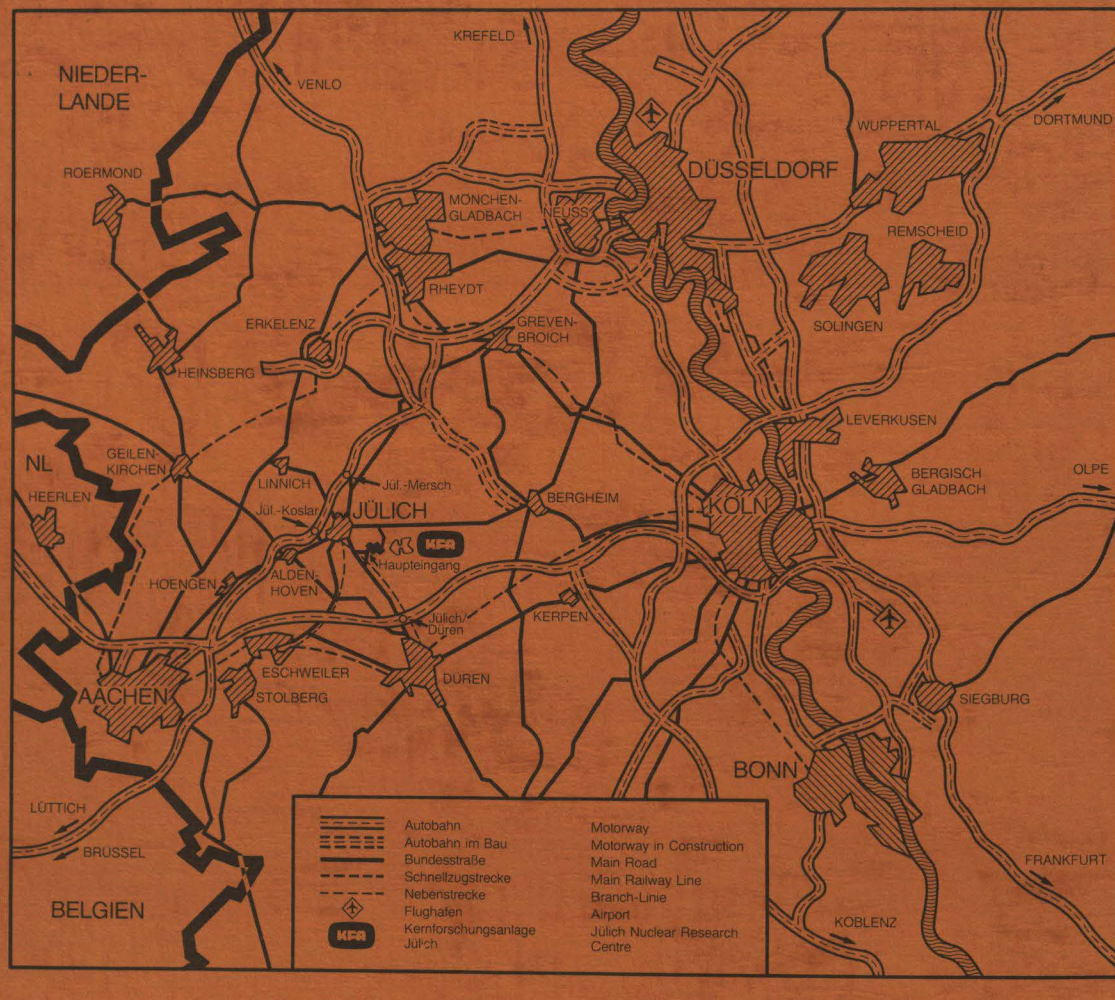
Gamma- and Conversion-Electron Data from Slow Neutron Capture in ^{74}Se, ^{75}Se, ^{76}Se and ^{77}Se and from ^{75}Se(E.C.) ^{75}As

by
Y. Tokunaga, H.G. Börner

Jül - Spez - 145
March 1982
ISSN 0343-7639



Als Manuskript gedruckt

Spezielle Berichte der Kernforschungsanlage Jülich – Nr. 145
Institut für Kernphysik Jül - Spez -145

Zu beziehen durch: ZENTRALBIBLIOTHEK der Kernforschungsanlage Jülich GmbH
Postfach 1913 · D-5170 Jülich (Bundesrepublik Deutschland)
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Gamma- and Conversion-Electron Data from Slow Neutron Capture in ^{74}Se, ^{75}Se, ^{76}Se and ^{77}Se and from ^{75}Se(E.C.) ^{75}As

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CONTENTS

Introduction

In this report we give complete sets of γ-lines seen in the reactions $^{74}Se(n,\gamma)$ and $^{76}Se(n,\gamma)$, and the γ-lines observed in the $^{75}Se(n,\gamma)$ and $^{77}Se(n,\gamma)$ reactions and from the $^{75}Se(E.C.)^{75}As$ decay. These data has also in part given in ref./1/. Further for strong low-energy transitions in the $^{74}Se(n,\gamma)$ and $^{76}Se(n,\gamma)$ reactions, the conversion electron data are shown. They are identical to those in ref./1/.

The measurements were carried out at the ILL/Grenoble and at the IKP/KFA Jülich. The high energy γ-lines were measured with pair spectrometers both at Jülich and Grenoble. The low-energy γ-lines were recorded with the high resolution curved crystal spectrometers GAMS 1 and GAMS 2/3 at the ILL/Grenoble. The conversion electrons were measured with the high resolution β-spectrometer BILL at the ILL/Grenoble. The following spectra were obtained and summarized in this report ;

Reaction	Instrument	Energy range in MeV	Number of identified γ-or e^-lines
$^{74}Se(n,\gamma)^{75}Se$	GAMS 1, 2/3	0.05 - 1.80	∿ 600
$^{74}Se(n,e^-)$	BILL	0.10 - 0.80	24†
$^{74}Se(n,\gamma)$	Pair(Jülich)	1.91 - 8.03	∿ 750
$^{74}Se(n,\gamma)$	Pair(Grenoble)	1.53 - 3.02 5.12 - 8.03	∿ 400
$^{75}Se(n,\gamma)^{76}Se$	GAMS 1, 2/3	0.43 - 1.80	∿ 50
$^{75}Se(n,e^-)$	BILL	0.55	1
$^{75}Se(n,\gamma)$	Pair(Grenoble)	5.12 - 11.15	∿ 50
$^{75}Se(E.C.,\gamma)^{75}As$	GAMS 1, 2/3	0.06 - 0.40	9
$^{75}Se(E.C.,e^-)$	BILL	0.10 - 0.30	7
$^{76}Se(n,\gamma)^{77}Se$	GAMS 1, 2/3	0.05 - 2.42	∿ 700
$^{76}Se(n,e^-)$	BILL	0.04 - 0.76	40†
$^{76}Se(n,\gamma)$	Pair(Jülich)	1.62 - 7.42	∿ 680

† including subshell lines

The γ-lines of the $^{75}Se(n,\gamma)$ and $^{77}Se(n,\gamma)$ reactions could be measured because of the double neutron capture in ^{74}Se and ^{76}Se, respectively. The double neutron capture in ^{74}Se was for the first time observed in this work, and a more detailed discussion is given in ref./1/.

The energy and intensity calibration of the pair spectrometer in Jülich and in Grenoble were performed mainly with the $^{14}N(n,\gamma)$-data. Again details are given in ref./1/. The energy calibration of the GAMS crystal spectrometers is based on the Pb-X-ray energies (ref./2/). The Pb-X-rays originate from the Pb-Se alloy target, which was used at the HFR/ILL Grenoble (in-pile target). The intensity normalization of the GAMS-data was accomplished by adopting the data taken in former experiments with Ge(Li)-detectors (refs./3,5/). The intensities measured with the β-spectrometer BILL were normalized so that the theoretical values of conversion coefficients are well reproduced for those transitions which are known to be of pure multipolarities (E2 or E3).

The impurity and background γ-lines were removed as completely as possible. In cases where it was impossible to separate such lines, or where small admixtures of impurities had to be considered, comments are given to such lines.

The evaluation of the obtained data and the discussions of nuclear structure aspects are given in ref./1/. For previous experiments on the $^{74}Se(n,\gamma)$ reaction, the reader is refered to refs./3,4/, and with regard to the $^{76}Se(n,\gamma)$ reaction to refs./4,5,6,7/.

The precise γ-energies from the present work may be useful for energy calibrations in other experiments.

TABLE 1.1 GAMMA-RAYS IN THE 74SE(n,γ) REACTION

NO.	E_γ (ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN KEV	TRANSITION ENERGY IN KEV
1	8027.15(34)	0.070(4)	0.46	8027.61
2	7740.6(11)	0.91(29)	0.43	7741.0
3	7734.12(28)	25.0(13)	0.43	7734.55
4	7461.2(8)	0.032(9)	0.40	7461.6
5	7441.24(16)	0.502(25)	0.40	7441.63
6 #	7417.(2)	0.071(22)	0.40	7417.
7	7398.64(16)	0.231(12)	0.39	7399.03
8 *	7187.5(5)	0.037(5)	0.37	7187.9
9	7167.58(19)	0.357(22)	0.37	7167.95
10	7131.98(14)	0.224(11)	0.36	7132.35
11	7064.64(11)	0.776(39)	0.36	7065.00
12	7006.74(11)	1.38(7)	0.35	7007.09
13	6882.65(20)	0.063(5)	0.34	6882.99
14	6843.11(11)	0.254(13)	0.34	6842.44
15	6828.72(9)	0.80(4)	0.33	6829.05
16	6782.0(8)	0.019(5)	0.33	6282.4
17	6594.8(7)	0.043(7)	0.31	6595.1
18	6450.6(7)	0.026(6)	0.30	6450.9
19	6437.80(7)	2.73(14)	0.30	6438.10
20	6424.5(10)	0.027(5)	0.30	6424.8
21	6374.51(8)	0.235(27)	0.29	6374.80
22	6360.2(7)	0.017(4)	0.29	6360.5
23	6354.28(27)	0.074(7)	0.29	6354.57
24	6256.91(23)	0.0491(28)	0.28	6257.19
25	6225.27(7)	1.27(6)	0.28	6225.55
26	6216.61(8)	0.450(23)	0.28	6216.89
27	6132.34(7)	0.389(19)	0.27	6132.61
28	6083.98(9)	0.447(22)	0.26	6083.25
29	6068.98(14)	0.127(7)	0.27	6069.25
30	6054.5(6)	0.018(4)	0.26	6054.8
31	6041.29(7)	0.352(19)	0.26	6041.56
32	5996.96(11)	0.252(14)	0.26	5997.22
33	5991.0(7)	0.031(4)	0.26	5991.2
34	5910.3(5)	0.041(6)	0.25	5910.5
35	5869.6(5)	0.0228(32)	0.25	5869.9
36	5860.64(9)	0.465(23)	0.25	5860.89
37	5785.25(15)	0.103(6)	0.24	5785.49
38	5756.12(15)	0.124(7)	0.24	5756.36
39	5728.43(15)	0.121(7)	0.23	5728.66
40	5720.34(18)	0.099(11)	0.23	5720.58
41	5692.7(10)	0.0158(31)	0.23	5693.0
42	5671.51(8)	0.141(15)	0.23	5671.74
43	5643.86(33)	0.031(10)	0.23	5644.09
44	5620.59(25)	0.0374(33)	0.23	5620.82
45	5587.0(11)	0.016(6)	0.22	5587.2
46	5570.93(5)	1.21(6)	0.22	5571.15
47	5561.70(36)	0.085(5)	0.22	5561.92
48	5555.2(9)	0.0206(27)	0.22	5555.5
49	5529.5(7)	0.020(6)	0.22	5529.7
50	5521.0(6)	0.032(8)	0.22	5521.3

AFTER SUBTRACTION OF CONTRIBUTION OF THE ^{76}SE(n,γ) REACTION
* NOT CLEARLY SEEN IN THE JUELICH SPECTRUM

TABLE 1.1 CONTINUED

NO.	E_γ (ERROR) IN KEV	I_γ(ERROR) /100N	RECOIL ENERGY IN KEV	TRANSITION ENERGY IN KEV
51	5508.77(30)	0.111(18)	0.22	5508.99
52	5505.1(5)	0.077(17)	0.22	5505.31
53	5498.3(9)	0.021(6)	0.22	5498.5
54	5492.2(8)	0.044(16)	0.22	5492.4
55	5488.6(10)	0.034(16)	0.22	5488.8
56	5482.3(8)	0.035(10)	0.22	5482.5
57	5478.2(8)	0.032(11)	0.21	5478.4
58	5470.60(7)	0.294(15)	0.21	5470.82
59	5461.98(5)	0.833(42)	0.21	5462.20
60	5454.1(5)	0.041(7)	0.21	5454.3
61	5448.0(8)	0.029(7)	0.21	5448.3
62	5442.7(12)	0.022(8)	0.21	5442.9
63	5437.7(8)	0.027(8)	0.21	5438.0
64	5429.59(8)	0.406(23)	0.21	5429.80
65	5422.42(25)	0.302(46)	0.21	5422.63
66	5419.5(5)	0.134(44)	0.21	5419.8
67	5413.2(9)	0.022(7)	0.21	5413.4
68	5406.2(24)	0.013(6)	0.21	5406.4
69	5400.4(20)	0.027(9)	0.21	5400.6
70	5395.56(8)	0.509(26)	0.21	5395.77
71	5386.6(31)	0.008(6)	0.21	5386.8
72	5380.0(34)	0.011(7)	0.21	5380.2
73	5375.6(16)	0.0148(35)	0.21	5380.8
74	5368.84(20)	0.0829(44)	0.21	5369.04
75	5356.9(19)	0.023(8)	0.21	5357.1
76	5351.1(12)	0.026(7)	0.20	5351.3
77	5343.39(9)	0.379(15)	0.20	5343.60
78	5337.26(13)	0.203(1c)	0.20	5337.46
79	5330.3(8)	0.027(7)	0.20	5330.5
80	5323.15(15)	0.224(11)	0.20	5323.35
81	5311.0(6)	0.034(7)	0.20	5311.2
82	5304.3(7)	0.033(7)	0.20	5304.5
83	5289.97(7)	0.621(31)	0.20	5290.17
84	5281.0(5)	0.035(7)	0.20	5281.2
85	5274.6(6)	0.037(7)	0.20	5274.8
86	5267.49(14)	0.170(9)	0.20	5267.69
87	5258.14(44)	0.023(5)	0.20	5258.34
88	5250.60(10)	0.287(14)	0.20	5250.80
89	5245.30(9)	0.392(20)	0.20	5245.49
90	5235.4(10)	0.018(6)	0.20	5235.6
91	5228.24(10)	0.173(9)	0.20	5228.44
92	5221.35(12)	0.257(13)	0.20	5221.55
93	5210.4(20)	0.010(6)	0.19	5210.6
94	5204.79(27)	0.078(8)	0.19	5204.98
95	5195.5(14)	0.023(12)	0.19	5195.7
96	5191.7(6)	0.054(13)	0.19	5191.9
97	5183.3(13)	0.013(6)	0.19	5183.5
98	5169.31(38)	0.0340(35)	0.19	5169.50
99	5163.62(42)	0.0400(35)	0.19	5163.81
100	5156.32(39)	0.053(8)	0.19	5156.51

TABLE 1.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ(ERROR) /100N	RECOIL ENERGY IN KEV	TRANSITION ENERGY IN KEV
101	5151.0(6)	0.038(7)	0.19	5151.2
102	5140.21(6)	0.575(28)	0.19	5140.41
103	5133.9(6)	0.038(8)	0.19	5134.1
104	5127.9(7)	0.027(7)	0.19	5128.1
105	5120.8(14)	0.019(9)	0.19	5121.0
106	5116.41(32)	0.091(11)	0.19	5116.60
107	5110.0(7)	0.026(7)	0.19	5110.2
108	5102.6(9)	0.020(7)	0.19	5102.8
109	5095.34(18)	0.225(19)	0.19	5095.53
110	5091.07(46)	0.120(15)	0.19	5091.26
111	5086.48(11)	0.356(24)	0.19	5086.66
112	5077.67(11)	0.230(15)	0.18	5077.86
113	5065.21(11)	0.245(16)	0.18	5065.39
114	5059.12(21)	0.104(8)	0.18	5059.30
115	5046.96(20)	0.160(12)	0.18	5047.15
116	5041.2(18)	0.016(7)	0.18	5041.4
117	5034.41(8)	0.624(34)	0.18	5034.59
118	5026.9(8)	0.032(7)	0.18	5027.1
119	5008.74(24)	0.131(12)	0.18	5008.92
120	5003.8(6)	0.060(10)	0.18	5004.0
121	4998.5(11)	0.024(8)	0.18	4998.7
122	4991.6(11)	0.019(7)	0.18	4991.8
123	4983.10(31)	0.243(44)	0.18	4983.28
124	4980.5(5)	0.146(43)	0.18	4980.6
125	4970.8(16)	0.012(6)	0.18	4971.0
126	4961.50(20)	0.203(17)	0.18	4961.68
127	4957.5(16)	0.024(12)	0.18	4957.7
128	4948.8(5)	0.114(28)	0.18	4949.0
129 *	4945.6(9)	0.094(23)	0.18	4945.7
130	4941.0(8)	0.054(12)	0.17	4941.2
131	4934.23(22)	0.213(19)	0.17	4934.41
132	4930.35(38)	0.118(16)	0.17	4930.5
133	4922.61(7)	0.808(43)	0.17	4922.78
134	4911.28(46)	0.058(8)	0.17	4911.46
135	4904.18(26)	0.121(10)	0.17	4904.35
136	4897.8(10)	0.032(7)	0.17	4898.0
137	4891.73(39)	0.093(10)	0.17	4891.90
138	4886.3(11)	0.039(9)	0.17	4886.4
139	4881.5(10)	0.038(9)	0.17	4881.7
140	4874.81(7)	0.791(42)	0.17	4874.98
141	4863.83(46)	0.089(12)	0.17	4864.00
142	4859.7(19)	0.021(10)	0.17	4859.9
143	4853.5(11)	0.025(7)	0.17	4853.6
144	4845.10(8)	0.689(37)	0.17	4845.27
145	4833.3(25)	0.016(11)	0.17	4833.5
146	4829.4(6)	0.064(12)	0.17	4829.6
147	4822.3(11)	0.016(7)	0.17	4822.5
148	4816.99(14)	0.165(12)	0.17	4817.15
149	4810.2(5)	0.032(7)	0.17	4810.4
150	4802.2(7)	0.081(45)	0.17	4802.3

* POSSIBLE CONTAMINATION BY THE $^{12}C(n,\gamma)$ REACTION

TABLE 1.1 CONTINUED

NO.	E_γ (ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN KEV	TRANSITION ENERGY IN KEV
151	4799.7(8)	0.078(41)	0.17	4799.9
152	4794.81(16)	0.165(14)	0.16	4794.98
153	4784.79(20)	0.084(9)	0.16	4784.95
154	4778.2(5)	0.031(7)	0.16	4778.4
155	4769.48(26)	0.096(9)	0.16	4769.64
156	4761.57(44)	0.065(9)	0.16	4761.73
157	4756.5(17)	0.030(14)	0.16	4756.7
158	4753.0(27)	0.016(15)	0.16	4753.1
159	4746.19(12)	0.397(24)	0.16	4746.36
160	4741.4(12)	0.037(10)	0.16	4741.5
161	4736.4(6)	0.085(11)	0.16	4736.5
162	4731.9(17)	0.030(11)	0.16	4732.0
163	4727.7(20)	0.019(10)	0.16	4727.8
164	4721.8(8)	0.028(7)	0.16	4722.0
165	4708.17(32)	0.068(8)	0.16	4708.33
166	4701.6(7)	0.032(7)	0.16	4701.7
167	4694.33(22)	0.343(38)	0.16	4694.49
168	4687.32(24)	0.337(37)	0.16	4687.47
169	4681.8(10)	0.029(9)	0.16	4681.9
170	4676.4(9)	0.025(8)	0.16	4676.5
171	4666.60(40)	0.052(8)	0.16	4666.75
172	4659.5(7)	0.035(8)	0.16	4659.7
173	4654.5(13)	0.022(8)	0.16	4654.7
174	4649.5(12)	0.020(8)	0.15	4649.6
175	4640.08(32)	0.071(8)	0.15	4640.23
176	4632.83(11)	0.332(20)	0.15	4632.99
177	4626.5(6)	0.046(8)	0.15	4626.7
178	4621.2(11)	0.033(10)	0.15	4621.3
179	4617.0(6)	0.059(11)	0.15	4617.2
180	4610.5(6)	0.039(7)	0.15	4610.6
181	4594.33(9)	0.334(20)	0.15	4594.48
182	4587.4(5)	0.059(12)	0.15	4587.6
183	4583.38(19)	0.171(15)	0.15	4583.53
184	4576.85(33)	0.057(8)	0.15	4577.00
185	4568.35(12)	0.222(15)	0.15	4568.50
186	4562.41(9)	0.451(26)	0.15	4562.56
187	4556.99(37)	0.063(9)	0.15	4557.14
188	4550.14(32)	0.162(17)	0.15	4550.29
189	4546.4(15)	0.036(14)	0.15	4546.56
190	4541.2(13)	0.026(8)	0.15	4541.3
191	4535.61(41)	0.083(10)	0.15	4535.75
192	4530.1(8)	0.053(9)	0.15	4530.2
193	4525.3(7)	0.056(9)	0.15	4525.5
194	4519.17(25)	0.121(11)	0.15	4519.32
195	4510.18(15)	0.261(17)	0.15	4510.32
196	4503.6(19)	0.036(24)	0.15	4503.8
197	4500.76(42)	0.180(26)	0.15	4500.91
198	4494.7(15)	0.024(8)	0.14	4494.8
199	4489.05(22)	0.390(31)	0.14	4489.19
200	4485.7(5)	0.149(25)	0.14	4485.9

TABLE 1.1 CONTINUED

NO.	E_γ (ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN KEV	TRANSITION ENERGY IN KEV
201	4477.47(15)	0.240(15)	0.14	4477.61
202	4471.4(9)	0.033(8)	0.14	4471.5
203	4463.48(35)	0.263(45)	0.14	4463.62
204	4461.0(12)	0.075(42)	0.14	4461.2
205	4454.77(33)	0.102(10)	0.14	4454.91
206	4448.8(5)	0.062(9)	0.14	4449.0
207	4441.52(12)	0.441(26)	0.14	4441.66
208	4435.79(22)	0.184(14)	0.14	4435.93
209	4430.32(19)	0.204(15)	0.14	4430.46
210	4423.0(8)	0.034(8)	0.14	4423.1
211	4415.53(12)	0.402(23)	0.14	4415.67
212	4408.08(14)	0.365(28)	0.14	4408.22
213	4404.4(5)	0.128(19)	0.14	4404.5
214	4400.34(23)	0.173(19)	0.14	4400.48
215	4394.00(44)	0.046(8)	0.14	4394.14
216	4386.96(19)	0.114(10)	0.14	4387.10
217	4378.24(45)	0.053(10)	0.14	4378.37
218	4373.77(17)	0.165(14)	0.14	4373.91
219	4365.59(20)	0.169(17)	0.14	4365.73
220	4362.0(14)	0.020(14)	0.14	4362.1
221	4352.9(5)	0.043(8)	0.14	4353.1
222	4343.07(24)	0.197(20)	0.14	4343.21
223	4339.29(16)	0.388(26)	0.13	4339.42
224	4333.80(23)	0.151(13)	0.13	4333.94
225	4326.84(16)	0.231(16)	0.13	4326.97
226	4321.8(5)	0.054(9)	0.13	4321.9
227	4315.0(8)	0.038(10)	0.13	4315.2
228	4310.44(30)	0.134(13)	0.13	4310.58
229	4305.58(26)	0.123(12)	0.13	4305.71
230	4298.3(8)	0.093(45)	0.13	4298.4
231	4295.6(15)	0.073(38)	0.13	4295.7
232	4290.91(15)	0.193(16)	0.13	4291.05
233	4284.94(30)	0.069(10)	0.13	4285.07
234	4280.3(7)	0.024(9)	0.13	4280.5
235	4272.54(23)	0.074(9)	0.13	4272.67
236	4267.05(30)	0.057(9)	0.13	4267.18
237	4260.95(44)	0.065(12)	0.13	4261.08
238	4256.93(41)	0.080(12)	0.13	4257.06
239	4252.2(6)	0.055(10)	0.13	4252.3
240	4246.9(5)	0.128(38)	0.13	4247.0
241	4244.11(17)	0.429(45)	0.13	4244.24
242	4238.7(13)	0.054(32)	0.13	4238.8
243	4235.7(6)	0.143(31)	0.13	4235.8
244	4231.0(21)	0.022(12)	0.13	4231.2
245	4227.0(14)	0.036(13)	0.13	4227.1
246	4222.5(11)	0.14(11)	0.13	4222.6
247	4220.5(9)	0.14(12)	0.13	4220.7
248	4214.16(44)	0.128(26)	0.13	4214.29
249	4210.9(7)	0.138(23)	0.13	4211.0
250	4207.47(16)	0.430(37)	0.13	4207.60

TABLE 1.1 CONTINUED

NO.	E_γ (ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN KEV	TRANSITION ENERGY IN KEV
251	4200.07(12)	0.333(23)	0.13	4200.19
252	4194.72(21)	0.178(14)	0.13	4194.84
253	4187.6(12)	0.033(11)	0.13	4187.7
254	4183.4(8)	0.081(13)	0.13	4183.5
255	4179.5(9)	0.057(13)	0.13	4179.6
256	4174.06(31)	0.199(19)	0.12	4174.18
257	4170.6(9)	0.058(16)	0.12	4170.7
258	4162.72(25)	0.319(37)	0.12	4162.84
259	4159.8(6)	0.178(29)	0.12	4159.9
260	4155.8(9)	0.055(15)	0.12	4156.0
261	4149.6(9)	0.030(8)	0.12	4149.7
262	4139.0(13)	0.026(10)	0.12	4139.1
263	4134.4(15)	0.048(20)	0.12	4134.5
264	4131.1(14)	0.063(19)	0.12	4131.3
265	4126.9(14)	0.046(12)	0.12	4127.0
266	4123.1(15)	0.027(12)	0.12	4123.2
267	4116.13(16)	0.147(12)	0.12	4116.25
268	4110.76(21)	0.117(11)	0.12	4110.88
269	4105.45(16)	0.154(13)	0.12	4105.57
270	4097.3(7)	0.028(9)	0.12	4097.4
271	4092.2(5)	0.088(21)	0.12	4092.4
272	4089.20(40)	0.093(22)	0.12	4089.32
273	4082.75(41)	0.053(9)	0.12	4082.87
274	4077.95(32)	0.088(11)	0.12	4078.07
275	4073.4(7)	0.048(12)	0.12	4073.5
276	4069.5(5)	0.056(12)	0.12	4069.7
277	4062.96(44)	0.060(12)	0.12	4063.08
278	4058.7(6)	0.068(14)	0.12	4059.1
279	4055.4(6)	0.058(15)	0.12	4055.5
280	4048.85(12)	0.273(18)	0.12	4048.96
281	4043.80(43)	0.188(34)	0.12	4043.92
282	4041.0(12)	0.062(34)	0.12	4041.1
283	4035.3(10)	0.038(12)	0.12	4035.4
284	4031.3(7)	0.085(14)	0.12	4031.4
285	4027.4(6)	0.079(14)	0.12	4027.6
286	4022.03(34)	0.132(15)	0.12	4022.15
287	4017.97(12)	0.497(30)	0.12	4018.09
288	4010.13(14)	0.519(31)	0.12	4010.25
289	4005.58(20)	0.415(28)	0.11	4005.69
290	4001.6(11)	0.077(16)	0.11	4001.7
291	3997.8(7)	0.097(16)	0.11	3997.9
292	3993.48(38)	0.124(14)	0.11	3993.59
293	3987.8(5)	0.080(11)	0.11	3987.9
294 *	3983.21(41)	0.099(11)	0.11	3983.32
295	3978.0(5)	0.086(12)	0.11	3978.1
296	3973.68(30)	0.142(14)	0.11	3973.79
297	3966.7(8)	0.046(10)	0.11	3966.8
298	3962.12(38)	0.168(23)	0.11	3962.24
299	3958.76(28)	0.270(24)	0.11	3958.87
300	3954.3(15)	0.040(13)	0.11	3954.4

* POSSIBLY CONTAMINATED BY THE $^{35}CL(n,\gamma)$ REACTION

TABLE 1.1 CONTINUED

NO.	E_γ (ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
301	3950.25(14)	0.458(29)	112.	3950.36
302	3943.30(27)	0.111(11)	111.	3943.41
303	3938.05(20)	0.166(13)	111.	3938.16
304	3929.59(13)	0.273(18)	111.	3929.70
305	3922.0(6)	0.083(18)	111.	3922.1
306	3918.73(45)	0.123(18)	110.	3918.84
307	3914.0(6)	0.053(10)	110.	3914.1
308	3908.74(41)	0.064(10)	109.	3908.85
309	3900.79(22)	0.145(13)	109.	3900.90
310	3895.62(18)	0.193(15)	109.	3895.73
311	3881.17(44)	0.056(9)	108.	3881.28
312	3873.5(15)	0.018(9)	107.	3873.5
313	3869.0(9)	0.032(9)	107.	3869.1
314	3862.3(11)	0.025(9)	107.	3862.4
315	3856.58(38)	0.175(31)	106.	3856.68
316	3853.95(44)	0.138(32)	106.	3854.06
317	3843.68(26)	0.137(16)	106.	3843.79
318	3840.1(10)	0.032(13)	106.	3840.2
319	3832.8(7)	0.049(14)	105.	3832.9
320	3829.3(11)	0.032(13)	105.	3829.4
321	3823.8(7)	0.053(14)	105.	3823.9
322 *	3820.4(5)	0.071(15)	104.	3820.5
323	3814.0(12)	0.026(12)	104.	3814.1
324	3810.24(30)	0.107(14)	104.	3810.35
325	3804.0(5)	0.051(10)	104.	3804.1
326	3799.27(29)	0.100(12)	103.	3799.37
327	3794.1(6)	0.084(13)	103.	3794.2
328	3790.17(28)	0.176(17)	103.	3790.27
329	3783.9(6)	0.076(12)	102.	3784.0
330	3779.7(7)	0.080(13)	102.	3779.8
331	3775.6(10)	0.044(12)	102.	3775.7
332	3771.1(6)	0.112(21)	102.	3771.2
333	3767.9(11)	0.064(20)	102.	3768.0
334	3764.40(37)	0.121(18)	101.	3764.50
335	3758.06(31)	0.097(11)	101.	3758.16
336	3752.71(34)	0.093(11)	101.	3752.81
337	3747.7(6)	0.060(12)	101.	3747.8
338	3743.66(40)	0.116(14)	100.	3743.76
339	3739.5(7)	0.059(12)	100.	3739.6
340	3734.6(7)	0.063(13)	100.	3734.7
341	3730.65(14)	0.377(24)	100.	3730.75
342	3724.43(42)	0.083(13)	99.	3724.53
343	3720.5(5)	0.072(13)	99.	3720.6
344	3715.46(25)	0.173(17)	99.	3715.55
345	3711.63(44)	0.095(14)	99.	3711.73
346	3706.9(6)	0.056(11)	98.	3707.0
347	3701.8(6)	0.068(13)	98.	3701.9
348	3698.03(38)	0.099(14)	98.	3698.12
349	3690.99(26)	0.134(14)	98.	3691.09
350	3686.63(20)	0.210(17)	97.	3686.73

* POSSIBLY CONTAMINATED BY THE $^{35}CL(n,\gamma)$ REACTION

TABLE 1.1 CONTINUED

NO.	E_γ (ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
351	3680.8(11)	0.050(22)	97.	3680.9
352	3677.7(18)	0.039(19)	97.	3677.8
353	3673.2(5)	0.079(13)	97.	3673.3
354	3668.7(6)	0.073(12)	96.	3668.8
355	3664.00(20)	0.177(15)	96.	3664.10
356	3655.0(6)	0.078(18)	96.	3655.1
357	3652.12(37)	0.104(18)	95.	3652.21
358	3645.96(41)	0.047(10)	95.	3646.05
359	3635.61(21)	0.134(14)	95.	3635.70
360	3631.4(11)	0.036(15)	94.	3631.5
361	3627.90(24)	0.150(19)	94.	3627.99
362	3621.5(7)	0.052(22)	94.	3621.6
363	3618.34(44)	0.191(35)	94.	3618.43
364	3615.7(10)	0.058(40)	94.	3615.8
365	3607.04(26)	0.097(12)	93.	3607.13
366	3602.49(23)	0.148(15)	93.	3602.58
367	3598.7(5)	0.078(14)	93.	3598.8
368	3593.1(9)	0.041(13)	92.	3593.2
269	3589.3(14)	0.036(14)	92.	3589.4
370	3585.5(10)	0.058(25)	92.	3585.6
371	3582.7(5)	0.111(28)	92.	3582.8
372	3578.3(5)	0.054(12)	92.	3578.4
373	3572.91(28)	0.080(11)	91.	3573.00
374	3565.68(38)	0.084(15)	91.	3565.77
375	3561.82(41)	0.180(33)	91.	3561.91
376	3558.96(17)	0.463(43)	91.	3559.05
377	3553.86(46)	0.065(12)	90.	3553.95
378	3549.2(6)	0.045(11)	90.	3549.3
379	3543.64(31)	0.077(11)	90.	3543.73
380	3638.51(36)	0.094(14)	90.	3538.60
381	3534.54(34)	0.121(15)	89.	3534.63
382	3530.56(26)	0.131(15)	89.	3530.65
383	3523.89(13)	0.550(35)	89.	3523.98
384	3520.8(8)	0.229(46)	89.	3520.9
385	3518.24(43)	0.23(8)	89.	3518.33
386	3512.23(42)	0.107(24)	88.	3512.32
387	3509.23(28)	0.207(24)	88.	3509.32
388	3505.18(40)	0.123(18)	88.	3505.27
389	3501.71(40)	0.130(19)	88.	3501.80
390	3498.17(18)	0.237(22)	88.	3498.26
391	3491.55(16)	0.201(16)	87.	3491.64
392	3486.33(37)	0.146(29)	87.	3486.41
393	3483.6(7)	0.077(27)	87.	3483.7
394	3479.26(30)	0.043(11)	87.	3479.34
395	3473.88(28)	0.059(16)	86.	3473.96
396	3470.48(25)	0.090(17)	86.	3470.57
397	3466.86(17)	0.097(16)	86.	3466.94
398	3460.1(8)	0.048(16)	86.	2460.2
399	3456.8(6)	0.074(16)	86.	3456.9
400	3451.71(32)	0.105(13)	85.	3451.80

TABLE 1.1 CONTINUED

NO.	E_γ (ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
401	3446.97(37)	0.098(14)	85.	3447.06
402	3443.03(30)	0.127(15)	85.	3443.11
403	3438.29(25)	0.120(14)	85.	3438.38
404	3432.9(5)	0.049(11)	84.	3433.0
405	3427.7(10)	0.072(24)	84.	3427.8
406	3424.5(6)	0.189(22)	84.	3424.6
407	3420.8(10)	0.091(17)	84.	3420.9
408	3416.9(5)	0.122(16)	84.	3417.0
409	3411.70(30)	0.283(29)	83.	3411.79
410	3408.8(10)	0.072(22)	83.	3408.8
411	3405.1(6)	0.089(16)	83.	3405.2
412	3400.80(44)	0.170(27)	83.	3400.89
413	3397.9(5)	0.146(27)	83.	3398.0
414	3394.1(6)	0.079(15)	82.	3394.2
415	3389.55(31)	0.112(14)	82.	3389.63
416	3380.3(5)	0.064(12)	82.	3380.4
417	3375.6(9)	0.049(13)	82.	3375.7
418	3371.6(9)	0.073(18)	81.	3371.7
419	3368.2(14)	0.051(18)	81.	3368.3
420	3364.9(8)	0.080(20)	81.	3365.0
421	3361.59(39)	0.117(19)	81.	3361.67
422	3355.4(5)	0.087(17)	81.	3355.5
423	3352.1(10)	0.043(16)	80.	3352.2
424	3344.33(36)	0.077(13)	80.	3344.41
425	3340.08(24)	0.161(17)	80.	3340.16
426	3336.22(31)	0.112(16)	80.	3336.30
427	3331.6(5)	0.056(12)	79.	3331.7
428	3326.6(6)	0.057(15)	79.	3326.7
429	3323.08(42)	0.086(16)	79.	3323.16
430	3318.9(6)	0.052(13)	79.	3319.0
431	3314.6(7)	0.038(12)	79.	3314.7
432	3309.06(15)	0.236(28)	78.	3309.14
433	3306.06(22)	0.148(26)	78.	3306.14
434	3299.38(17)	0.100(13)	78.	3299.46
435	3293.02(29)	0.052(11)	78.	3293.10
436	3286.03(20)	0.141(24)	77.	3286.11
437	3283.2(8)	0.034(21)	77.	3283.3
438	3278.72(23)	0.128(21)	77.	3278.80
439	3276.2(13)	0.043(26)	77.	3276.2
440	3270.7(7)	0.054(13)	77.	3270.8
441	3266.3(5)	0.134(25)	76.	3266.4
442	3263.6(6)	0.102(26)	76.	3263.6
443	3258.12(21)	0.199(17)	76.	3258.20
444	3253.46(35)	0.101(14)	76.	3253.53
445	3246.68(16)	0.272(20)	75.	3246.75
446	3236.45(16)	0.082(14)	75.	3236.53
447	3232.25(17)	0.107(18)	75.	3232.33
448	3228.69(14)	0.231(25)	75.	3228.76
449	3225.50(17)	0.131(24)	74.	3225.57
450	3221.05(16)	0.096(15)	74.	3221.13

TABLE 1.1 CONTINUED

NO.	E_γ (ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
451	3217.10(19)	0.062(14)	74.	3217.18
452	3209.1(7)	0.063(18)	74.	3209.2
453 #	3205.4(43)	0.020(21)	74.	3205.4
454	3201.9(26)	0.047(19)	73.	3202.0
455	3198.8(7)	0.088(31)	73.	3198.8
456	3192.7(6)	0.113(36)	73.	3192.7
457	3190.2(6)	0.111(37)	73.	2190.3
458	3185.00(36)	0.085(14)	73.	3185.07
459	3179.8(9)	0.068(28)	72.	3179.8
460	3177.0(5)	0.133(30)	72.	3177.0
461	3171.82(17)	0.215(18)	72.	3171.89
462	3164.90(33)	0.093(14)	72.	3164.97
463	3160.20(40)	0.112(17)	71.	3160.27
464	3156.55(18)	0.295(23)	71.	3156.62
465	3150.99(36)	0.088(14)	71.	3151.07
466	3145.68(21)	0.158(16)	71.	3145.75
467	3139.42(37)	0.038(12)	71.	3139.49
468	3132.88(20)	0.095(14)	70.	3132.95
469	3127.60(27)	0.133(40)	70.	3127.67
470	3125.30(40)	0.098(38)	70.	3125.37
471 *	3116.56(37)	0.096(23)	70.	3116.63
472	3113.70(20)	0.214(25)	69.	3113.77
473	3109.36(44)	0.085(19)	69.	3109.43
474	3106.17(39)	0.094(19)	69.	3106.24
475	3102.14(39)	0.090(17)	69.	3102.21
476	3098.60(23)	0.146(19)	69.	3098.67
477	3093.72(15)	0.191(18)	68.	3093.79
478	3087.65(46)	0.063(18)	68.	3087.72
479	3084.5(7)	0.049(18)	68.	3084.5
480	3080.68(17)	0.187(19)	68.	3080.75
481	3075.23(20)	0.126(14)	68.	3075.30
482	3070.43(17)	0.161(15)	67.	3070.49
483 *	3062.00(13)	0.306(22)	67.	3062.07
484	3057.25(19)	0.199(20)	67.	3057.32
485	3053.47(31)	0.112(17)	67.	3053.53
486	3049.17(27)	0.182(26)	67.	3049.24
487	3046.22(43)	0.144(28)	66.	3046.29
488	3042.83(34)	0.324(43)	66.	3042.90
489	3040.1(9)	0.095(48)	66.	3040.14
490	3035.15(15)	0.246(21)	66.	3035.21
491	3028.8(6)	0.071(25)	66.	3028.9
492	3026.16(39)	0.109(26)	66.	3026.23
493	3021.9(9)	0.032(20)	65.	3022.0
494 *	3014.48(44)	0.031(24)	65.	3014.55
495	3011.90(12)	0.149(26)	65.	3011.96
496	3002.01(19)	0.215(20)	64.	3002.07
497	2997.7(5)	0.079(15)	64.	2997.8
498 *	2993.32(30)	0.118(16)	64.	2993.39
499	2988.53(27)	0.137(17)	64.	2988.60
500	2983.2(6)	0.084(20)	64.	2983.2

EXISTANCE QUESTIONABLE

* POSSIBLY CONTAMINATED BY THE $^{35}CL(n,\gamma)$ REACTION

TABLE 1.1 CONTINUED

NO.	E_γ (ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
501	2979.88(37)	0.136(21)	64.	2979.95
502 *	2975.08(26)	0.133(17)	63.	2975.15
503	2970.1(7)	0.048(14)	63.	2970.2
504	2965.6(15)	0.024(15)	63.	2865.7
505	2962.00(29)	0.134(18)	63.	2962.06
506	2957.3(15)	0.026(16)	63.	2957.4
507	2953.70(29)	0.144(19)	62.	2953.76
508	2948.77(34)	0.096(15)	62.	2948.84
509	2938.94(16)	0.127(16)	62.	2939.00
510	2932.25(37)	0.082(24)	62.	2932.31
511	2929.53(25)	0.108(25)	61.	2929.59
512	2922.39(30)	0.147(19)	61.	2922.45
513	2918.84(38)	0.140(20)	61.	2918.90
514	2915.1(7)	0.067(16)	61.	2915.2
515	2910.3(6)	0.105(20)	61.	2910.4
516	2906.7(11)	0.072(18)	60.	2906.8
517	2902.6(12)	0.118(44)	60.	2902.7
518	2899.9(8)	0.15(5)	60.	2900.0
519	2895.26(27)	0.286(29)	60.	2895.32
520	2892.1(5)	0.153(25)	60.	2892.1
521	2887.31(27)	0.183(20)	60.	2887.37
522	2883.6(8)	0.061(17)	60.	2883.6
523	2879.5(6)	0.107(20)	59.	2879.6
524	2876.4(10)	0.048(20)	59.	2876.4
525	2870.25(28)	0.120(11)	59.	2870.31
526	2865.35(8)	0.374(21)	59.	2865.41
527	2856.79(43)	0.058(16)	58.	2856.85
528	2853.21(37)	0.072(17)	58.	2853.27
529	2848.16(28)	0.116(18)	58.	2848.21
530 *	2844.29(13)	0.273(23)	58.	2844.35
531	2837.07(27)	0.037(30)	58.	2837.13
532	2834.15(9)	0.276(32)	57.	2834.20
533	2830.03(20)	0.059(21)	57.	2830.09
534	2826.86(10)	0.110(25)	57.	2826.92
535	2821.76(19)	0.212(21)	57.	2821.82
536	2817.9(11)	0.035(16)	57.	2818.0
537	2814.0(10)	0.037(15)	57.	2814.0
538	2809.5(5)	0.086(18)	56.	2809.6
539	2806.1(6)	0.066(18)	56.	2806.2
540	2800.37(21)	0.168(19)	56.	2800.43
541	2795.92(34)	0.128(21)	56.	2795.97
542	2792.84(24)	0.167(23)	56.	2792.90
543	2785.79(37)	0.078(16)	56.	2785.84
544	2780.4(8)	0.105(49)	55.	2780.5
545	2778.1(5)	0.14(6)	55.	2778.2
546	2770.99(44)	0.063(15)	55.	2771.04
547	2763.05(11)	0.186(23)	55.	2763.11
548	2760.02(18)	0.093(22)	55.	2760.07
549	2756.23(18)	0.080(19)	54.	2756.28
550	2752.82(21)	0.079(20)	54.	2752.87

* POSSIBLY CONTAMINATED BY THE $^{35}CL(n,\gamma)$ REACTION

TABLE 1.1 CONTINUED

NO.	E_γ (ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
551	2749.45(15)	0.140(21)	54.	2749.50
552	2743.42(42)	0.060(20)	54.	2743.47
553	2746.65(22)	0.157(22)	54.	2746.70
554	2736.8(7)	0.074(21)	54.	2736.8
555	2733.1(16)	0.071(37)	53.	2733.1
556	2730.3(19)	0.054(44)	53.	2730.3
557	2725.6(5)	0.087(18)	53.	2725.7
558	2722.1(9)	0.050(18)	53.	2722.1
559	2718.3(8)	0.050(17)	53.	2718.4
560	2714.59(42)	0.105(20)	53.	2714.65
561	2711.07(37)	0.133(21)	53.	2711.13
562	2707.2(6)	0.19(5)	52.	2707.2
563	2704.7(10)	0.11(6)	52.	2704.7
564	2699.34(26)	0.168(21)	52.	2699.39
565	2695.95(26)	0.203(25)	52.	2696.00
566	2693.0(13)	0.031(20)	52.	2693.0
567	2688.16(45)	0.089(17)	52.	2688.21
568	2684.19(11)	0.224(22)	52.	2684.24
569	2679.24(26)	0.069(17)	51.	2679.29
570 *	2675.59(13)	0.193(22)	51.	2675.64
571	2671.09(45)	0.12(6)	51.	2671.14
572	2668.61(38)	0.13(6)	51.	2668.67
573	2665.34(17)	0.110(21)	51.	2665.39
574	2659.10(18)	0.128(27)	51.	2659.15
575	2656.32(27)	0.179(38)	50.	2656.37
576	2653.6(6)	0.078(42)	50.	2653.7
577	2646.9(8)	0.076(35)	50.	2646.9
578	2644.3(8)	0.106(33)	50.	2644.3
579	2639.47(27)	0.116(18)	50.	2639.52
580	2633.56(15)	0.163(24)	50.	2633.61
581	2630.77(14)	0.171(25)	50.	2630.82
582	2622.84(16)	0.168(20)	49.	2622.89
583	2619.01(18)	0.144(22)	49.	2619.06
584	2615.96(12)	0.195(24)	49.	2616.01
585	2610.02(45)	0.044(22)	49.	2610.07
586	2607.36(42)	0.057(21)	49.	2607.41
587	2600.57(32)	0.134(37)	48.	2600.62
588	2598.4(7)	0.070(33)	48.	2598.5
589	2593.75(28)	0.107(21)	48.	2593.79
590	2590.74(31)	0.110(22)	48.	2590.79
591	2587.09(33)	0.096(19)	48.	2587.14
592	2583.35(15)	0.231(24)	48.	2583.40
593	2579.2(5)	0.064(23)	48.	2579.2
594	2576.35(32)	0.122(23)	48.	2576.39
595	2571.30(17)	0.177(20)	47.	2571.35
596	2566.35(15)	0.202(22)	47.	2566.40
597	2562.30(34)	0.087(18)	47.	2562.35
598	2556.87(38)	0.086(20)	47.	2556.91
599	2553.61(26)	0.122(22)	47.	2553.66
600	2549.7(6)	0.083(19)	47.	2549.8

* POSSIBLY CONTAMINATED BY THE $^{35}CL(n,\gamma)$ REACTION

TABLE 1.1 CONTINUED

NO.	E_γ (ERROR) IN KEV	I_γ(ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
601	2546.0(15)	0.041(20)	46.	2546.0
602	2543.1(6)	0.092(23)	46.	2543.2
603	2539.26(43)	0.102(20)	46.	2539.30
604	2535.77(33)	0.146(22)	46.	2535.82
605	2532.34(42)	0.106(20)	46.	2532.38
606	2527.8(9)	0.060(19)	46.	2527.8
607	2524.7(7)	0.075(22)	46.	2524.7
608	2521.6(9)	0.054(19)	46.	2521.6
609	2517.53(30)	0.134(20)	45.	2517.58
610	2511.34(29)	0.185(23)	45.	2511.38
611	2507.9(6)	0.100(22)	45.	2507.9
612	2504.9(9)	0.053(21)	45.	2505.0
613	2498.91(13)	0.240(24)	45.	2498.95
614	2494.92(19)	0.244(29)	45.	2494.97
615	2492.23(23)	0.158(28)	44.	2492.27
616	2488.38(21)	0.136(21)	44.	2488.42
617	2484.16(32)	0.101(21)	44.	2484.20
618	2481.01(22)	0.139(23)	44.	2481.05
619	2476.99(40)	0.070(19)	44.	2477.03
620	2473.34(18)	0.200(25)	44.	2473.38
621	2470.19(17)	0.190(25)	44.	2470.23
622	2464.57(14)	0.201(22)	43.	2464.62
623	2459.39(43)	0.17(7)	43.	2459.43
624	2456.6(6)	0.226(46)	43.	2456.6
625	2453.64(33)	0.118(44)	43.	2453.69
626	2449.67(21)	0.109(21)	43.	2449.72
627	2445.19(43)	0.114(34)	43.	2445.23
628	2442.53(26)	0.142(37)	43.	2442.58
629	2438.43(24)	0.096(20)	43.	2438.47
630	2433.56(27)	0.130(21)	42.	2433.60
631	2429.8(6)	0.071(23)	42.	2429.9
632	2426.82(41)	0.128(23)	42.	2426.87
633	2422.1(6)	0.086(26)	42.	2422.1
634	2419.5(7)	0.106(27)	42.	2419.5
635	2416.2(9)	0.083(24)	42.	2416.3
636	2411.85(47)	0.070(19)	42.	2411.89
637	2406.87(19)	0.264(27)	41.	2406.91
638	2402.93(19)	0.250(26)	41.	2402.97
639	2397.05(21)	0.205(24)	41.	2397.09
640	2393.22(42)	0.123(27)	41.	2393.26
641	2390.5(7)	0.101(24)	41.	2390.5
642	2386.1(5)	0.083(20)	41.	2386.1
643	2381.89(44)	0.104(20)	41.	2381.93
644	2376.91(32)	0.131(22)	40.	2376.95
645	2373.36(26)	0.177(25)	40.	2373.40
646	2369.89(37)	0.115(23)	40.	2369.93
647	2365.81(38)	0.105(21)	40.	2365.85
648	2361.19(14)	0.144(22)	40.	2361.23
649	2355.49(21)	0.31(9)	40.	2355.53
650	2353.0(5)	0.15(8)	40.	2353.0

TABLE 1.1 CONTINUED

NO.	E_γ (ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
651	2349.62(16)	0.137(30)	40.	2349.66
652	2346.45(15)	0.120(23)	39.	2346.49
653	2340.70(14)	0.130(23)	39.	2340.74
654	2337.37(27)	0.072(22)	39.	2337.44
655	2333.26(15)	0.117(23)	39.	2333.30
656	2329.66(29)	0.061(22)	39.	2329.70
657	2326.33(12)	0.171(25)	39.	2326.37
658	2320.20(10)	0.232(32)	39.	2320.24
659	2317.45(15)	0.221(30)	38.	2317.49
660	2313.69(25)	0.100(23)	38.	2313.73
661	2309.83(23)	0.099(26)	38.	2309.87
662	2306.63(27)	0.100(23)	38.	2306.67
663	2300.47(16)	0.103(22)	38.	2300.51
664	2293.43(25)	0.066(21)	38.	2293.47
665	2289.40(34)	0.045(21)	38.	2289.44
666	2284.3(7)	0.044(21)	37.	2284.3
667	2279.50(21)	0.308(39)	37.	2279.54
668	2277.11(29)	0.244(40)	37.	2277.14
669	2270.53(23)	0.176(25)	37.	2270.56
670	2265.57(17)	0.214(27)	37.	2265.60
671	2260.21(31)	0.103(24)	37.	2260.24
672	2256.57(17)	0.228(28)	36.	2256.61
673	2252.1(7)	0.092(27)	36.	2252.2
674	2249.38(40)	0.099(31)	36.	2249.41
675	2243.6(6)	0.059(22)	36.	2243.6
676	2238.68(25)	0.081(23)	36.	2238.71
677	2234.82(13)	0.185(28)	36.	2234.86
678	2231.52(17)	0.145(26)	36.	2231.56
679	2224.31(38)	0.073(12)	35.	2224.34
680	2220.54(36)	0.112(12)	35.	2220.57
681	2216.37(27)	0.126(25)	35.	2216.41
682	2211.6(10)	0.12(6)	35.	2211.6
683	2209.0(10)	0.09(6)	35.	2209.0
684	2205.50(36)	0.097(27)	35.	2205.53
685	2202.14(23)	0.148(27)	35.	2202.17
686	2197.9(6)	0.072(27)	35.	2197.9
687	2195.17(26)	0.197(30)	34.	2195.21
688	2190.65(24)	0.162(27)	34.	2190.69
689	2187.34(30)	0.115(27)	34.	2187.38
690	2183.66(21)	0.248(30)	34.	2183.69
691	2179.4(6)	0.110(24)	34.	2179.4
692	2173.9(5)	0.122(25)	34.	2174.0
693	2170.17(19)	0.398(37)	34.	2170.21
694	2165.01(30)	0.206(32)	34.	2165.05
695	2162.33(31)	0.212(32)	33.	2162.36
696	2156.03(38)	0.121(26)	33.	2156.06
697	2152.27(17)	0.373(37)	33.	2152.30
698	2149.04(27)	0.190(32)	33.	2149.08
699	2145.8(7)	0.066(25)	33.	2145.8
700	2141.77(18)	0.295(34)	33.	2141.80

* POSSIBLE CONTAMINATION BY THE $^1H(n,\gamma)$ REACTION

TABLE 1.1 CONTINUED

NO.	Eγ(ERROR) IN KEV	Iγ(ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
701	2138.52(44)	0.160(29)	33.	2138.56
702	2134.59(26)	0.215(30)	33.	2134.62
703	2130.6(8)	0.065(25)	32.	2130.7
704	2125.50(20)	0.288(33)	32.	2125.53
705	2121.4(6)	0.098(26)	32.	2121.4
706	2117.69(29)	0.204(30)	32.	2117.72
707	2112.3(12)	0.043(26)	32.	2112.4
708	2109.30(16)	0.194(30)	32.	2109.33
709	2103.22(23)	0.109(27)	32.	2103.25
710	2099.71(19)	0.145(29)	32.	2099.74
711	2096.34(35)	0.068(26)	31.	2096.37
712	2092.50(31)	0.077(27)	31.	2092.53
713	2089.18(25)	0.108(28)	31.	2089.22
714	2085.35(16)	0.195(33)	31.	2085.38
715	2082.3(8)	0.050(25)	31.	2082.3
716	2077.6(7)	0.036(25)	31.	2077.6
717	2074.04(20)	0.131(28)	31.	2074.07
718	2064.97(18)	0.123(29)	31.	2065.00
719	2061.89(44)	0.055(27)	30.	2061.92
720	2056.47(25)	0.115(30)	30.	2056.50
721	2053.02(31)	0.102(28)	30.	2053.05
722	2048.88(30)	0.080(32)	30.	2048.91
723	2045.86(28)	0.136(30)	30.	2045.89
724	2041.38(12)	0.209(33)	30.	2041.41
725	2037.65(16)	0.25(7)	30.	2037.68
726	2035.3(6)	0.13(6)	30.	2035.3
727	2030.70(45)	0.064(37)	30.	2030.72
728	2027.8(6)	0.080(31)	29.	2027.8
729	2020.39(17)	0.195(31)	29.	2020.42
730	2012.02(10)	0.358(39)	29.	2012.05
731	2007.74(41)	0.059(30)	29.	2007.77
732	2005.17(11)	0.169(40)	29.	2005.20
733	2001.08(14)	0.095(30)	29.	2001.10
734	1997.20(17)	0.089(29)	29.	1997.23
735 #	1992.6(12)	0.05(11)	28.	1992.7
736 #	1990.2(7)	0.07(11)	28.	1990.2
737	1987.04(23)	0.063(31)	28.	1987.07
738	1978.35(26)	0.131(14)	28.	1978.38
739	1972.24(38)	0.099(16)	28.	1972.27
740	1968.65(43)	0.098(15)	28.	1968.67
741	1963.87(41)	0.083(13)	28.	1963.90
742	1959.21(34)	0.132(17)	27.	1959.24
743	1955.47(19)	0.253(20)	27.	1955.50
744	1951.12(21)	0.191(17)	27.	1951.14
745	1946.51(21)	0.210(18)	27.	1946.54
746	1942.7(6)	0.059(14)	27.	1942.8
747	1937.63(13)	0.158(34)	27.	1937.65
748	1933.83(13)	0.23(5)	27.	1933.85
749	1931.15(40)	0.112(37)	27.	1931.18
750	1926.04(30)	0.069(30)	27.	1926.07

POSSIBLY A SINGLET

TABLE 1.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
751	1922.52(14)	0.180(36)	26.	1922.55
752	1919.43(17)	0.122(34)	26.	1919.46
753	1915.74(20)	0.090(32)	26.	1915.76
754	1909.78(30)	0.059(31)	26.	1909.80
755	1906.45(11)	0.257(39)	26.	1906.48
756	1901.2(6)	0.047(12)	26.	1901.3
757	1891.92(40)	0.076(14)	26.	1891.94
758	1888.39(43)	0.095(13)	25.	1888.41
759	1884.5(11)	0.028(11)	25.	1884.5
760	1879.52(43)	0.056(10)	25.	1879.54
761	1874.84(24)	0.108(11)	25.	1874.87
762	1870.29(23)	0.100(11)	25.	1870.31
763 *	1863.95(23)	0.088(10)	25.	1863.97
764 @	1853.31(7)	0.308(19)	25.	1853.34
765	1846.42(35)	0.128(25)	24.	1846.44
766	1843.77(22)	0.204(27)	24.	1843.79
767	1836.06(44)	0.054(10)	24.	1836.08
768	1831.59(26)	0.172(19)	24.	1831.61
769	1828.2(11)	0.064(19)	24.	1828.2
770	1825.3(17)	0.026(24)	24.	1825.4
771	1819.06(37)	0.072(12)	24.	1819.06
772	1813.9(7)	0.13(6)	24.	1813.9
773	1811.4(10)	0.12(5)	23.	1811.5
774	1807.99(39)	0.160(23)	23.	1808.02
775	1803.9(5)	0.071(14)	23.	1804.0
776	1799.1(5)	0.060(12)	23.	1799.1
777	1794.13(36)	0.110(18)	23.	1794.16
778	1790.80(19)	0.342(25)	23.	1790.83
779	1787.36(19)	0.298(23)	23.	1787.38
780	1774.69(21)	0.184(17)	23.	1774.72
781	1770.24(31)	0.131(15)	22.	1770.26
782	1766.6(7)	0.084(16)	22.	1766.6
783	1763.4(6)	0.073(17)	22.	1763.4
784	1758.44(31)	0.076(11)	22.	1758.46
785	1752.71(22)	0.112(12)	22.	1752.73
786	1748.11(32)	0.099(13)	22.	1748.13
787	1743.89(29)	0.239(35)	22.	1743.91
788	1741.3(10)	0.073(33)	22.	1741.3
789	1737.0(5)	0.085(15)	22.	1737.0
790	1733.32(36)	0.104(16)	22.	1733.34
791	1728.03(37)	0.121(21)	21.	1728.05
792	1724.9(6)	0.080(20)	21.	1724.9
793	1720.16(27)	0.130(15)	21.	1720.18
794	1715.74(35)	0.144(20)	21.	1715.76
795	1712.3(6)	0.127(20)	21.	1712.3
796	1708.8(6)	0.116(20)	21.	1708.8
797 *	1705.54(19)	0.157(31)	21.	1705.56
798	1700.68(34)	0.096(14)	21.	1700.70
799	1696.12(13)	0.270(20)	21.	1696.14
800	1692.8(7)	0.119(25)	21.	1692.8

* POSSIBLY CONTAMINATED BY THE $^{27}AL(n,\gamma)$ REACTION
@ MOST OF THE INTENSITY IS FROM THE $^{75}SE(n,\gamma)$ REACTION

TABLE 1.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ(ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
801	1689.1(7)	0.290(24)	20.	1689.1
802	1685.6(6)	0.049(21)	20.	1685.6
803	1678.61(11)	0.259(23)	20.	1678.63
804	1670.76(44)	0.110(23)	20.	1670.78
805	1667.6(9)	0.057(22)	20.	1667.6
806	1661.32(17)	0.110(18)	20.	1661.34
807	1656.24(11)	0.270(23)	20.	1656.26
808	1652.66(10)	0.266(25)	20.	1652.68
809	1651.24(12)	0.35(8)	20.	1651.25
810	1650.047(45)	0.383(37)	19.	1650.066
811	1642.82(26)	0.154(19)	19.	1642.84
812	1640.5(6)	0.056(22)	19.	1640.5
813	1634.80(30)	0.066(15)	19.	1634.80
814	1631.40(12)	0.155(18)	19.	1631.42
815	1628.1(5)	0.070(24)	19.	1628.1
816	1624.2(6)	0.123(47)	19.	1624.2
817	1622.57(7)	0.274(26)	19.	1622.59
818	1619.2(6)	0.052(23)	19.	1619.2
819	1613.9(5)	0.046(17)	19.	1613.9
820	1611.82(34)	0.084(21)	19.	1611.84
821	1608.28(7)	0.236(20)	19.	1608.29
822	1602.34(13)	0.191(17)	18.	1602.36
823	1600.53(19)	0.141(25)	18.	1600.55
824	1596.32(23)	0.20(5)	18.	1596.34
825	1592.92(18)	0.112(14)	18.	1592.94
826	1589.55(9)	0.272(24)	18.	1589.57
827	1585.64(29)	0.123(15)	18.	1585.66
828	1580.37(18)	0.100(15)	18.	1580.39
829	1577.20(34)	0.052(13)	18.	1577.22
830	1569.40(19)	0.065(12)	18.	1569.42
831	1566.67(15)	0.093(15)	18.	1566.68
832	1565.6(6)	0.067(28)	18.	1565.6
833	1563.87(22)	0.058(12)	18.	1563.88
834	1560.74(14)	0.131(14)	17.	1560.76
835	1555.943(41)	0.298(25)	17.	1555.961
836	1551.4(6)	0.047(20)	17.	1551.5
837	1548.57(21)	0.059(12)	17.	1548.59
838	1544.46(15)	0.085(13)	17.	1544.48
839	1539.99(33)	0.056(19)	17.	1540.00
840	1538.93(42)	0.067(22)	17.	1538.95
841	1537.28(29)	0.062(19)	17.	1537.29
842	1536.05(41)	0.049(22)	17.	1536.07
843	1532.58(35)	0.065(19)	17.	1532.59
844	1531.52(25)	0.068(18)	17.	1531.54
845	1528.94(8)	0.186(36)	17.	1528.96
846	1524.11(8)	0.185(17)	17.	1524.13
847	1521.46(28)	0.079(14)	17.	1521.48
848	1517.479(44)	0.335(25)	16.	1517.495
849	1515.329(23)	0.822(47)	16.	1515.346
850	1508.71(19)	0.062(15)	16.	1508.73

TABLE 1.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ(ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
851	1502.61(37)	0.057(20)	16.	1502.62
852	1499.66(38)	0.065(19)	16.	1499.68
853	1498.70(24)	0.071(18)	16.	1498.72
854	1497.35(34)	0.064(19)	16.	1497.36
855	1493.97(10)	0.131(18)	16.	1493.99
856	1490.717(44)	0.306(31)	16.	1490.733
857	1488.09(10)	0.133(15)	16.	1488.11
858	1480.27(31)	0.090(12)	16.	1480.29
859	1476.80(15)	0.072(11)	16.	1476.82
860	1474.34(6)	0.113(5)	16.	1474.36
861	1470.61(17)	0.065(22)	15.	1470.62
862	1466.970(40)	0.268(25)	15.	1466.986
863	1459.85(24)	0.063(16)	15.	1459.87
864	1453.59(11)	0.205(24)	15.	1453.61
865	1452.51(18)	0.076(16)	15.	1452.52
866	1448.74(9)	0.188(19)	15.	1448.76
867	1444.35(7)	0.118(14)	15.	1444.37
868	1437.52(9)	0.405(31)	15.	1437.54
869	1435.13(10)	0.144(16)	15.	1435.15
870	1432.12(19)	0.068(25)	15.	1432.13
871	1419.76(10)	0.089(12)	14.	1419.78
872	1411.71(13)	0.057(12)	14.	1411.72
873	1408.56(7)	0.264(22)	14.	1408.58
874	1406.86(16)	0.089(16)	14.	1406.88
875	1402.90(32)	0.068(10)	14.	1402.91
876	1399.53(25)	0.055(15)	14.	1399.55
877	1392.05(20)	0.060(15)	14.	1392.06
878	1391.20(21)	0.050(13)	14.	1391.21
879	1386.72(7)	0.215(19)	14.	1386.74
880	1384.80(18)	0.084(11)	14.	1384.82
881	1382.73(12)	0.084(11)	14.	1382.75
882	1380.25(7)	0.405(30)	14.	1380.26
883	1378.69(21)	0.100(18)	14.	1378.70
884	1377.81(20)	0.085(17)	14.	1377.82
885	1376.33(27)	0.046(12)	14.	1376.35
886	1374.08(6)	0.172(15)	14.	1374.09
887	1371.93(28)	0.060(10)	13.	1371.95
888	1366.71(8)	0.191(17)	13.	1366.73
889	1363.93(36)	0.049(15)	13.	1363.95
890	1359.82(9)	0.152(30)	13.	1359.83
891	1359.09(10)	0.133(20)	13.	1359.10
892	1357.81(19)	0.096(19)	13.	1357.82
893	1352.13(25)	0.059(16)	13.	1352.14
894	1350.10(9)	0.106(12)	13.	1350.11
895	1347.20(38)	0.037(12)	13.	1347.21
896	1342.23(7)	0.119(13)	13.	1342.24
897	1336.60(33)	0.028(12)	13.	1336.61
898	1332.51(9)	0.075(37)	13.	1332.53
899	1330.09(6)	0.129(15)	13.	1330.10
900	1326.69(8)	0.160(16)	13.	1326.70

TABLE 1.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ(ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
901	1321.33(9)	0.094(26)	13.	1321.34
902	1319.90(31)	0.059(15)	12.	1319.91
903	1318.81(25)	0.056(16)	12.	1318.83
904	1315.49(33)	0.043(8)	12.	1315.50
905	1312.17(26)	0.029(9)	12.	1212.19
906	1308.94(6)	0.148(20)	12.	1308.95
907	1306.97(9)	0.091(11)	12.	1306.98
908	1302.952(23)	0.451(30)	12.	1302.964
909	1300.46(25)	0.159(23)	12.	1300.48
910	1299.67(31)	0.059(29)	12.	1299.69
911	1296.572(41)	0.319(29)	12.	1296.584
912	1294.11(6)	0.242(19)	12.	1294.12
913	1291.89(18)	0.063(19)	12.	1291.90
914	1286.77(19)	0.151(42)	12.	1286.78
915	1285.54(30)	0.107(39)	12.	1285.55
916	1283.89(23)	0.086(17)	12.	1283.90
917	1282.35(24)	0.062(16)	12.	1282.36
918	1272.10(16)	0.070(17)	12.	1272.11
919	1245.256(24)	0.455(40)	11.	1245.267
920	1239.40(16)	0.048(11)	11.	1239.41
921	1235.86(27)	0.027(11)	11.	1235.87
922	1230.92(6)	0.128(18)	11.	1230.93
923	1224.686(20)	0.499(41)	11.	1224.696
924	1222.61(12)	0.072(13)	11.	1222.62
925	1211.08(7)	0.136(18)	10.	1211.09
926	1208.80(19)	0.039(10)	10.	1208.81
927	1201.92(15)	0.043(10)	10.	1201.93
928	1197.47(16)	0.045(15)	10.	1197.48
929	1190.82(9)	0.127(23)	10.	1190.83
930	1189.29(5)	0.170(19)	10.	1189.30
931	1186.13(9)	0.096(15)	10.	1186.14
932	1181.86(24)	0.040(12)	10.	1181.87
933	1179.719(38)	0.290(30)	10.	1179.729
934	1172.40(15)	0.053(11)	9.8	1172.41
935	1170.69(8)	0.156(15)	9.8	1170.70
936	1168.24(8)	0.085(11)	9.8	1168.25
937	1165.966(22)	0.281(23)	9.7	1165.976
938 *	1163.30(13)	0.061(12)	9.7	1163.31
939 *	1161.81(13)	0.063(12)	9.7	1161.82
940	1159.708(47)	0.151(17)	9.6	1159.717
941	1154.24(8)	0.056(12)	9.5	1154.25
942	1150.58(11)	0.036(9)	9.5	1150.59
943	1147.51(14)	0.102(32)	9.4	1147.52
944	1145.801(24)	0.62(5)	9.4	1145.810
945	1144.449(12)	2.52(15)	9.4	1144.458
946	1139.276(35)	0.168(16)	9.3	1139.286
947	1138.17(9)	0.112(15)	9.3	1138.18
948	1135.83(11)	0.069(16)	9.2	1135.83
949	1132.99(8)	0.047(15)	9.2	1133.00
950	1126.96(5)	0.123(14)	9.1	1126.97

* POSSIBLY CONTAMINATED BY THE ^{76}SE(n,γ) REACTION

TABLE 1.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
951	1125.36(11)	0.053(10)	9.1	1125.37
952	1123.91(14)	0.041(10)	9.0	1123.92
953	1123.32(22)	0.076(30)	9.0	1123.33
954	1116.40(17)	0.028(8)	8.9	1116.41
955	1102.52(15)	0.043(10)	8.7	1102.52
956	1100.40(24)	0.038(9)	8.7	1100.41
957	1098.47(20)	0.030(9)	8.6	1098.47
958	1096.06(21)	0.025(9)	8.6	1096.07
959	1090.570(42)	0.115(10)	8.5	1090.579
960	1087.51(21)	0.039(11)	8.5	1087.52
961	1083.328(17)	0.213(16)	8.4	1083.336
962	1081.42(7)	0.059(7)	8.4	1081.43
963	1078.06(7)	0.044(7)	8.3	1078.07
964	1076.27(13)	0.025(7)	8.3	1076.27
965	1073.870(35)	0.077(7)	8.3	1073.878
966	1067.27(10)	0.091(10)	8.2	1067.28
967	1066.63(12)	0.065(16)	8.1	1066.64
968	1064.813(23)	0.162(13)	8.1	1064.821
969	1063.16(10)	0.036(6)	8.1	1063.17
970	1062.02(25)	0.024(8)	8.1	1062.03
971	1060.31(11)	0.041(9)	8.0	1060.32
972	1057.06(8)	0.056(10)	8.0	1057.07
973	1053.376(41)	0.063(7)	7.9	1053.384
974	1049.783(28)	0.096(8)	7.9	1049.791
975	1048.127(21)	0.134(10)	7.9	1048.135
976	1046.40(11)	0.034(7)	7.8	1046.40
977	1044.98(20)	0.043(6)	7.8	1044.98
978	1041.99(14)	0.023(6)	7.8	1042.00
979	1037.03(23)	0.023(8)	7.7	1037.04
980	1033.59(23)	0.030(6)	7.6	1033.60
981	1032.21(6)	0.177(15)	7.6	1032.22
982	1031.45(10)	0.057(14)	7.6	1031.46
983	1030.56(21)	0.040(14)	7.6	1030.56
984	1029.86(7)	0.045(8)	7.6	1029.86
985	1026.690(40)	0.104(9)	7.5	1026.698
986	1024.447(19)	0.311(21)	7.5	1024.454
987	1023.181(13)	0.406(26)	7.5	1023.189
988	1022.125(47)	0.095(10)	7.5	1022.132
989	1018.468(25)	0.130(11)	7.4	1018.475
990	1015.401(35)	0.104(9)	7.4	1015.409
991	1014.33(7)	0.062(11)	7.3	1014.34
992	1012.11(15)	0.018(5)	7.3	1012.11
993	1009.67(9)	0.027(6)	7.3	1009.68
994	1004.92(8)	0.066(10)	7.2	1004.93
995	1003.806(9)	0.88(5)	7.2	1003.813
996	1001.76(5)	0.066(9)	7.2	1001.76
997	999.647(23)	0.158(13)	7.2	999.654
998	995.98(16)	0.027(5)	7.1	995.99
999	991.66(14)	0.025(8)	7.0	991.67
1000	988.664(38)	0.063(7)	7.0	988.671

TABLE 1.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
1001	986.00(7)	0.041(5)	7.0	986.01
1002	980.47(10)	0.107(23)	6.9	980.47
1003	978.813(8)	1.73(11)	6.9	978.820
1004	976.303(46)	0.066(9)	6.8	976.310
1005	974.610(19)	0.257(18)	6.8	974.617
1006	971.163(44)	0.053(7)	6.8	971.170
1007	968.518(47)	0.043(6)	6.7	968.525
1008	965.37(6)	0.050(10)	6.7	965.38
1009	962.633(9)	1.56(17)	6.6	962.640
1010	962.106(45)	0.222(37)	6.6	962.112
1011	961.439(15)	0.56(5)	6.6	961.445
1012	961.019(39)	0.209(46)	6.6	961.026
1013	958.619(37)	0.123(16)	6.6	958.626
1014	954.49(5)	0.089(12)	6.5	954.50
1015	953.38(8)	0.063(11)	6.5	953.39
1016	952.123(7)	1.20(7)	6.5	952.129
1017	951.06(11)	0.114(17)	6.5	951.07
1018	946.634(18)	0.244(21)	6.4	946.640
1019	942.20(8)	0.070(13)	6.4	942.20
1020	941.29(11)	0.043(12)	6.3	941.30
1021	940.32(19)	0.021(6)	6.3	940.33
1022	939.21(6)	0.055(8)	6.3	939.22
1023	933.55(9)	0.046(10)	6.2	933.55
1024	932.81(6)	0.089(13)	6.2	932.82
1025	931.85(8)	0.048(8)	6.2	931.85
1026	930.661(15)	0.168(15)	6.2	930.667
1027	928.83(8)	0.031(7)	6.2	928.84
1028	925.582(12)	0.276(22)	6.1	925.588
1029	924.23(11)	0.026(7)	6.1	924.23
1030	922.75(10)	0.031(8)	6.1	922.76
1031	921.540(19)	0.140(14)	6.1	921.546
1032	915.247(40)	0.038(7)	6.0	915.253
1033	911.953(9)	1.77(14)	6.0	911.959
1034	906.560(19)	0.105(10)	5.9	906.566
1035	905.422(17)	0.119(12)	5.9	905.428
1036	903.60(14)	0.013(5)	5.8	903.61
1037	901.78(10)	0.018(5)	5.8	901.78
1038	897.603(7)	1.06(5)	5.8	897.609
1039	895.70(9)	0.070(17)	5.7	895.71
1040	891.462(11)	0.98(18)	5.7	891.467
1041	891.080(14)	0.51(6)	5.7	891.085
1042	889.04(11)	0.030(10)	5.7	889.05
1043	875.368(46)	0.080(10)	5.5	875.373
1044	874.76(9)	0.037(8)	5.5	874.77
1045	873.818(13)	0.292(16)	5.5	873.824
1046	871.392(43)	0.156(21)	5.4	871.398
1047	870.89(8)	0.044(11)	5.4	870.89
1048	869.475(20)	0.111(11)	5.4	869.481
1049	868.720(13)	0.179(15)	5.4	868.725
1050	866.09(21)	0.031(6)	5.4	866.10

TABLE 1.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
1051	863.026(33)	0.061(6)	5.3	863.032
1052	859.472(20)	0.149(10)	5.3	859.478
1053	857.884(28)	0.089(6)	5.3	857.889
1054	855.60(27)	0.023(6)	5.2	855.60
1055	847.932(19)	0.076(8)	5.2	847.937
1056	846.448(28)	0.113(8)	5.1	846.454
1057	842.33(19)	0.041(21)	5.1	842.33
1058	841.14(23)	0.038(21)	5.1	841.15
1059	839.882(7)	3.66(18)	5.0	839.887
1060	839.425(28)	0.42(6)	5.0	839.430
1061	835.38(37)	0.019(9)	5.0	835.39
1062	833.55(10)	0.021(7)	5.0	835.55
1063	832.11(23)	0.038(8)	5.0	832.11
1064	831.41(14)	0.054(5)	4.9	831.41
1065	830.37(14)	0.030(13)	4.9	830.38
1066	826.223(30)	0.0456(39)	4.9	826.228
1067	824.15(11)	0.0204(29)	4.9	824.15
1068	821.659(18)	0.186(12)	4.8	821.664
1069	820.95(12)	0.044(8)	4.8	820.95
1070	819.9(5)	0.021(7)	4.8	819.9
1071	813.814(26)	0.097(8)	4.7	813.818
1072	812.952(16)	0.174(21)	4.7	812.956
1073	812.36(9)	0.045(8)	4.7	812.37
1074	806.73(13)	0.024(5)	4.7	806.74
1075	804.77(12)	0.029(9)	4.6	804.78
1076	801.52(6)	0.0403(39)	4.6	801.52
1077	799.53(7)	0.0235(34)	4.6	799.54
1078	796.987(25)	0.0508(41)	4.5	796.992
1079	796.06(6)	0.026(13)	4.5	796.06
1080	794.73(19)	0.0242(38)	4.5	794.73
1081	793.047(26)	0.049(7)	4.5	793.051
1082	790.717(25)	0.105(13)	4.5	790.722
1083	789.995(10)	0.413(21)	4.5	790.000
1084	788.558(13)	0.310(16)	4.5	788.562
1085	787.284(24)	0.057(9)	4.4	787.289
1086	783.67(8)	0.0156(43)	4.4	783.68
1087	783.10(5)	0.025(5)	4.4	783.10
1088	781.493(12)	0.096(9)	4.4	781.497
1089	780.707(10)	0.112(10)	4.4	780.711
1090	778.004(39)	0.055(10)	4.3	778.008
1091	777.350(21)	0.047(6)	4.3	777.354
1092	776.09(7)	0.0131(41)	4.3	776.09
1093	775.09(7)	0.0184(44)	4.3	775.09
1094	770.6436(46)	0.823(47)	4.3	770.6479
1095	768.36(21)	0.029(13)	4.2	768.36
1096	766.69(5)	0.036(8)	4.2	766.70
1097	766.12(16)	0.013(5)	4.2	766.12
1098	765.20(14)	0.016(9)	4.2	765.20
1099	763.104(28)	0.080(11)	4.2	763.108
1100	761.09(13)	0.024(9)	4.1	761.09

TABLE 1.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ(ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
1101	760.630(24)	0.055(7)	4.1	760.634
1102	759.985(15)	0.127(11)	4.1	759.989
1103	759.19(5)	0.027(5)	4.1	759.19
1104	758.74(14)	0.043(10)	4.1	758.75
1105	757.300(24)	0.044(5)	4.1	757.304
1106	756.90(6)	0.094(12)	4.1	756.90
1107	756.467(23)	0.065(11)	4.1	756.471
1108	753.756(15)	0.061(5)	4.1	753.760
1109	749.628(6)	0.280(14)	4.0	749.632
1110	748.20(24)	0.030(12)	4.0	748.21
1111	747.626(28)	0.056(11)	4.0	747.630
1112	747.130(10)	0.212(16)	4.0	747.134
1113	745.91(18)	0.027(7)	4.0	745.91
1114	744.52(7)	0.019(5)	4.0	744.53
1115	737.84(10)	0.0278(27)	3.9	737.84
1116	736.83(22)	0.015(6)	3.9	736.84
1117	733.8946(37)	3.82(17)	3.9	733.8985
1118	730.02(17)	0.0128(36)	3.8	730.02
1119	727.516(8)	0.132(12)	3.8	727.519
1120	725.30(12)	0.0213(44)	3.8	725.31
1121	721.187(25)	0.0224(28)	3.7	721.191
1122	717.169(22)	0.0407(35)	3.7	717.173
1123	715.752(37)	0.0389(33)	3.7	715.756
1124	710.661(22)	0.0339(39)	3.6	710.665
1125	710.077(21)	0.0364(41)	3.6	710.081
1126	708.18(13)	0.0119(35)	3.6	708.18
1127	701.487(12)	0.0698(45)	3.5	701.491
1128	700.02(17)	0.0097(32)	3.5	700.02
1129	696.05(6)	0.0142(44)	3.5	696.05
1130	690.485(36)	0.0162(33)	3.4	690.488
1131	689.38(13)	0.0136(32)	3.4	689.38
1132	684.27(6)	0.0195(25)	3.4	684.27
1133	683.2(5)	0.014(5)	3.3	683.2
1134	682.36(14)	0.021(6)	3.3	682.37
1135	681.28(29)	0.0094(42)	3.3	681.29
1136	680.55(20)	0.0106(44)	3.3	680.55
1137	677.597(5)	0.328(17)	3.3	677.600
1138	676.0713(29)	1.75(9)	3.3	676.0746
1139	669.535(8)	0.205(11)	3.2	669.538
1140	666.267(38)	0.0148(22)	3.2	666.271
1141	664.740(46)	0.0154(31)	3.2	664.743
1142	663.98(6)	0.0344(29)	3.2	663.99
1143	661.865(35)	0.0164(23)	3.1	661.869
1144	660.97(5)	0.0175(31)	3.1	660.97
1145	659.295(5)	0.241(12)	3.1	659.298
1146	656.04(14)	0.026(7)	3.1	656.05
1147	654.52(9)	0.0119(34)	3.1	654.52
1148	652.768(19)	0.091(6)	3.0	652.771
1149	651.72(28)	0.010(6)	3.0	651.72
1150	650.771(36)	0.0289(25)	3.0	650.774

TABLE 1.1 CONTINUED

NO.	Eγ(ERROR) IN KEV	Iγ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
1151	648.672(25)	0.0331(27)	3.0	648.675
1152	647.94(15)	0.018(6)	3.0	647.95
1153	645.925(7)	0.197(14)	3.0	645.928
1154	637.728(19)	0.0270(26)	2.9	637.731
1155	635.274(8)	0.101(14)	2.9	635.277
1156	634.530(39)	0.0345(43)	2.9	634.533
1157	631.591(7)	0.077(10)	2.9	631.594
1158	629.59(8)	0.0146(44)	2.8	629.59
1159	628.4284(31)	0.557(41)	2.8	628.4312
1160	627.993(19)	0.079(8)	2.8	627.996
1161	627.23(12)	0.010(6)	2.8	627.24
1162	626.828(12)	0.073(7)	2.8	626.831
1163	626.0916(37)	0.260(19)	2.8	626.0944
1164	624.412(13)	0.0336(39)	2.8	624.415
1165	622.51(14)	0.0076(30)	2.8	622.51
1166	619.2974(41)	0.189(22)	2.7	619.3001
1167	618.25(6)	0.0230(39)	2.7	618.26
1168	617.78(5)	0.0097(26)	2.7	617.78
1169	613.73(6)	0.0113(27)	2.7	613.73
1170	612.613(41)	0.0124(28)	2.7	612.616
1171	610.7115(25)	5.98(40)	2.7	610.7142
1172	608.6979(24)	2.05(15)	2.7	608.7006
1173	599.17(6)	0.0199(42)	2.6	599.18
1174	598.385(9)	0.097(17)	2.6	598.388
1175	598.246(6)	0.371(28)	2.6	598.249
1176	597.34(13)	0.014(6)	2.6	597.34
1177	595.706(12)	0.045(7)	2.5	595.709
1178	595.19(15)	0.014(6)	2.5	595.19
1179	592.588(37)	0.025(5)	2.5	592.591
1180	587.808(9)	0.049(6)	2.5	587.811
1181	585.9443(30)	0.368(28)	2.5	585.9467
1182	581.267(13)	0.0272(25)	2.4	581.269
1183	580.49(12)	0.0078(22)	2.4	580.49
1184	579.471(25)	0.0150(21)	2.4	579.473
1185	572.968(9)	1.14(13)	2.3	572.970
1186	566.437(5)	0.236(18)	2.3	566.439
1187	556.72(8)	0.0168(24)	2.2	556.724
1188	556.31(7)	0.0139(31)	2.2	556.31
1189	554.042(6)	0.052(7)	2.2	554.044
1190	551.5675(29)	0.167(14)	2.2	551.5697
1191	548.888(37)	0.0080(22)	2.2	548.890
1192	547.484(23)	0.0139(23)	2.1	547.486
1193	546.15(5)	0.0141(26)	2.1	546.15
1194	537.126(17)	0.0163(19)	2.1	537.128
1195	534.7583(36)	0.251(37)	2.0	534.7603
1196	534.5769(40)	0.197(22)	2.0	534.5789
1197	533.734(17)	0.0368(27)	2.0	533.736
1198	528.07(7)	0.0147(28)	2.0	528.07
1199	524.365(6)	0.0477(46)	2.0	524.367
1200	524.704(28)	0.0100(22)	2.0	524.006

TABLE 1.1 CONTINUED

NO.	E_γ (ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
1201	522.409(20)	0.0193(31)	2.0	522.411
1202	520.234(16)	0.062(5)	1.9	520.236
1203	517.710(17)	0.0181(29)	1.9	517.712
1204	516.0418(20)	2.78(33)	1.9	516.0437
1205	514.966(8)	0.044(13)	1.9	514.968
1206	514.510(39)	0.0140(37)	1.9	514.512
1207	495.3897(22)	0.227(17)	1.8	495.3915
1208	492.039(7)	0.0262(22)	1.7	492.040
1209	491.569(37)	0.0046(20)	1.7	491.571
1210	490.7476(18)	0.746(40)	1.7	490.7493
1211	489.878(43)	0.0076(31)	1.7	489.880
1212	489.083(20)	0.037(7)	1.7	489.085
1213	487.8733(24)	0.175(17)	1.7	487.8750
1214	487.29(5)	0.012(7)	1.7	487.30
1215	484.1680(25)	0.576(34)	1.7	484.2140
1216	479.260(19)	0.0170(25)	1.6	479.261
1217	469.88(9)	0.0132(18)	1.6	469.88
1218	469.478(20)	0.0183(24)	1.6	469.479
1219	467.907(13)	0.0162(32)	1.6	467.908
1220	467.3891(36)	0.075(16)	1.6	467.3907
1221	461.0811(26)	0.205(26)	1.5	461.0826
1222	455.940(13)	0.0114(26)	1.5	455.942
1223	445.0853(29)	0.217(34)	1.4	445.0867
1224	444.654(40)	0.0197(40)	1.4	444.656
1225	443.757(9)	0.0152(30)	1.4	443.759
1226	442.127(12)	0.0117(30)	1.4	442.128
1227	436.148(20)	0.0108(28)	1.4	436.149
1228	434.5189(28)	0.092(16)	1.4	434.5203
1229	434.196(10)	0.0135(18)	1.4	434.198
1230	432.427(16)	0.0089(22)	1.3	432.429
1231	431.6517(18)	1.90(9)	1.3	431.6530
1232	427.8835(18)	2.88(16)	1.3	427.8848
1233	421.211(5)	0.034(6)	1.3	421.212
1234	413.934(6)	0.012(7)	1.2	421.935
1235	409.869(6)	0.0298(36)	1.2	409.871
1236	409.053(9)	0.0164(19)	1.2	409.054
1237	406.863(6)	0.028(7)	1.2	406.865
1238	405.383(12)	0.0177(19)	1.2	405.384
1239	404.3463(34)	0.0147(56)	1.2	404.3475
1240	383.216(6)	0.0142(26)	1.1	383.218
1241	380.842(5)	0.0149(32)	1.0	380.843
1242	377.3851(22)	2.41(13)	1.0	377.3861
1243	376.696(6)	0.062(9)	1.0	376.697
1244	375.4183(37)	0.032(5)	1.0	375.4193
1245	370.852(13)	0.0102(30)	1.0	370.853
1246	368.720(16)	0.0076(20)	1.0	368.721
1247	358.6377(46)	0.012(6)	0.9	358.6386
1248	358.0923(24)	0.0387(20)	0.9	358.0932
1249	354.751(19)	0.0073(20)	0.9	354.752
1250	349.4335(18)	0.730(39)	0.9	349.4344

TABLE 1.1 CONTINUED

NO.	E_γ (ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
1251	342.070(15)	0.0130(33)	0.8	342.071
1252	341.8622(22)	0.090(6)	0.8	341.8630
1253	339.0139(39)	0.0261(26)	0.8	339.0147
1254	335.754(7)	0.032(7)	0.8	335.755
1255	335.447(14)	0.040(7)	0.8	335.448
1256	334.2149(30)	0.0531(41)	0.8	334.2157
1257	330.958(9)	0.0155(28)	0.8	330.958
1258	328.401(10)	0.0119(20)	0.8	328.402
1259	326.1748(22)	0.166(9)	0.8	326.1756
1260	324.6501(28)	0.154(9)	0.8	324.6509
1261	324.134(10)	0.0154(25)	0.8	324.135
1262	319.7650(17)	0.526(32)	0.7	319.7657
1263	318.656(5)	0.0144(6)	0.7	318.657
1264	317.6101(12)	0.614(29)	0.7	317.6108
1265	315.807(11)	0.0119(28)	0.7	315.808
1266	315.4979(33)	0.532(44)	0.7	315.4986
1267	309.3228(17)	0.183(14)	0.7	309.3235
1268	305.340(38)	0.0090(29)	0.7	305.341
1269	299.3765(18)	0.642(47)	0.6	299.3771
1270	298.6843(13)	0.213(15)	0.6	298.6849
1271	296.556(9)	0.018(5)	0.6	296.556
1272	296.4989(41)	0.039(9)	0.6	296.4995
1273	292.8436(21)	5.76(34)	0.6	296.8442
1274	288.771(43)	0.0257(40)	0.6	288.771
1275	286.5719(40)	53.5(55)	0.6	286.5725
1276	284.5574(35)	0.145(14)	0.6	284.5580
1277	256.150(6)	0.0190(20)	0.5	256.151
1278	254.516(14)	0.0206(45)	0.5	254.517
1279	244.911(13)	0.0117(27)	0.4	244.911
1280	236.0749(25)	0.435(50)	0.4	236.0754
1281	235.890(12)	0.014(6)	0.4	235.891
1282	231.4185(37)	0.0319(35)	0.4	231.1096
1283	229.1775(24)	0.377(50)	0.4	229.1779
1284	221.5407(39)	0.178(28)	0.4	221.5411
1285	214.2875(20)	0.0173(46)	0.3	214.2879
1286	211.4614(10)	0.724(50)	0.3	211.4618
1287	195.5812(14)	0.781(38)	0.3	195.5815
1288	191.3710(11)	0.197(12)	0.3	191.3713
1289	180.576(6)	0.022(6)	0.2	180.576
1290	178.0638(30)	0.0307(27)	0.2	178.0640
1291	175.973(8)	0.0111(23)	0.2	175.973
1292	161.561(9)	0.0123(27)	0.2	161.561
1293	141.3147(15)	4.00(36)	0.1	141.3148
1294	133.0405(12)	0.089(13)	0.1	133.0406
1295	113.3746(32)	0.026(7)	0.09	113.3747
1296	112.3880(6)	5.97(50)	0.09	112.3881
1297	109.7289(20)	0.0190(46)	0.09	109.7290
1298	83.6914(22)	0.0123(37)	0.05	83.6915
1299	70.6528(27)	0.036(10)	0.04	70.6528

TABLE 1.2 CONVERSION ELECTRON LINES IN THE 74SE(n,γ) REACTION
THE FIRST FOUR COLUMNS ARE GAMMA-RAY DATA

E_γ (TRANS.) KEV	ERROR KEV	I_γ /100N	ERROR %	E_e* KEV	ERROR KEV	I_e /100N	ERROR %	SHELL	CONVERSION COEFF.	ERROR %	MULTIPOL. & COMMENTS
839.887	0.006	3.66	4.	827.25	0.05	1.58E-3	13.	K	4.32E-4	13.	M1
733.898	0.004	3.82	4.	721.25	0.07	1.68E-3	13.	K	4.42E-4	13.	E1 OR M1
610.714	0.003	5.99	6.	598.076	0.018	7.14E-3	12.	K	1.19E-3	13.	(E2)
608.701	0.002	2.05	6.	596.08	0.04	2.0E-3	26.	K	9.6E-4	27.	M1
516.044	0.002	2.78	11.	503.371	0.017	4.40E-3	10.	K	1.58E-3	15.	M1(+E2)
484.214	0.003	0.58	5.	471.59	0.03	2.1E-3	20.	K	3.7E-3	21.	E2(+M3?)
431.653	0.002	1.90	4.	418.981	0.023	4.06E-3	10.	K	2.15E-3	11.	M1
427.885	0.002	2.88	5.	415.200	0.021	2.98E-3	12.	K	1.03E-4	13.	E1
377.386	0.002	2.41	5.	364.713	0.011	7.01E-3	10.	K	2.90E-3	11.	M1
319.766	0.002	0.53	5.	307.12	0.03	2.76E-3	12.	K	5.25E-3	13.	M1(+E2, δ^2=0.15±0.14)
299.377	0.002	0.64	7.	286.71	0.03	3.33E-3	15.	K	5.17E-3	17.	M1
292.844	0.002	5.76	5.	280.182	0.011	3.14E-2	5.	K	5.44E-3	8.	M1(+E2)
				291.188	0.015	3.89E-3	9.	L1	6.76E-4	11.	
286.572	0.004	53.54	10.	273.914	0.005	1.88E-1	3.	K	3.50E-3	10.	E1
				284.922	0.006	1.79E-2	4.	L1	3.35E-4	11.	
236.075	0.003	0.44	11.	223.466	0.016	5.17E-3	14.	K	1.19E-2	18.	M1(+E2, δ^2=0.12±0.14)
229.178	0.002	0.38	13.	216.62	0.04	4.3E-3	20.	K	1.14E-2	24.	M1(+E2)
141.315	0.001	4.00	8.	128.656	0.003	2.02E-1	2.	K	5.06E-2	9.	M1+E2
				139.68	0.03	2.19E-2	5.	L1	5.49E-3	10.	δ^2=0.11±0.03
133.041	0.001	0.089	14.	120.378	0.005	3.50E-2	8.	K	3.95E-1	17.	E2(+M3?)
112.388	0.001	5.97	8.	99.729	0.002	7.32E-1	2.	K	1.23E-1	8.	M1+E2
				110.730	0.003	8.63E-1	6.	L1	1.45E-2	10.	@ δ^2 =0.17±0.03
				110.920	0.013	1.37E-2	14.	L2+L3	2.29E-3	16.	@
				112.153	0.007	1.66E-2	6.	M TOTAL	2.79E-3	10.	

ELECTRON BINDING ENERGIES IN EV : K=12657.8,L1=1653.9,L2=1476.2,L3=1435.8,
TAKEN FROM REF./2/ M1=231.5,M2=168.2,M3=161.9

* RECOIL ENERGY IS ADDED
@ NOT USED FOR THE CALCULATION OF MIXING RATIO

TABLE 2 γ-RAYS AFTER THE 75SE E.C.-DECAY

E_γ (ERROR) IN KEV	I_γ (ERROR)* /100 DECAY	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
400.6406(17)	11.56(15)	1.1	400.6417
303.9090(28)	1.34(2)	0.7	303.9097
279.5360(39)	25.2(4)	0.6	279.5366
264.6470(12)	59.1(8)	0.5	264.6475
188.5996(10)	1.47(3)	0.3	198.5999
135.9960(7)	59.0(8)	0.1	135.9961
121.1094(8)	17.3(3)	0.1	121.1095
96.7307(13)	3.48(9)	0.1	96.7308
66.0514(31)	1.14(2)	0.03	66.0514

* INTENSITIES ARE TAKEN FROM REF./8/

TABLE 3.1 HIGH ENERGY Y-RAYS IN THE 75SE(n,Y) REACTION

Eγ(ERROR) IN KEV	Iγ(ERROR)*	RECOIL ENERGY IN KEV	TRANSITION ENERGY IN KEV	COMMENTS
11153.(4)	1.01(11)	0.88	11154.	76SE
10594.5(25)	16.0(9)	0.79	10595.3	76SE
10031.5(16)	1.22(10)	0.71	10032.2	76SE
9937.5(14)	4.7(4)	0.70	9938.2	76SE
9464.9(9)	2.06(14)	0.63	9465.5	76SE
9365.9(9)	2.07(14)	0.62	9366.5	76SE
9127.3(7)	2.45(16)	0.59	9127.9	76SE
9027.4(13)	0.40(10)	0.58	9028.0	76SE
8724.4(5)	100.(5)	0.54	8724.9	76SE
8639.6(10)	0.61(11)	0.53	8640.1	76SE
8483.7(4)	11.2(6)	0.51	8484.2	76SE
8341.8(5)	8.1(9)	0.49	8342.3	76SE
8336.5(5)	8.0(9)	0.49	8337.0	76SE
829 3.2(5)	3.8(3)	0.49	8293.7	76SE
828 4.0(5)	4.1(3)	0.49	8284.5	76SE
8265.2(17)	0.34(11)	0.48	8265.6	
8243.2(18)	0.47(14)	0.48	8243.6	
8233.7(10)	0.90(16)	0.48	8234.1	
8203.58(35)	25.7(13)	0.48	8204.05	76SE
8185.2(7)	1.8(3)	0.47	8185.6	
8176.4(8)	2.3(3)	0.47	8176.8	
8145.2(11)	0.63(14)	0.47	8145.7	
8084.14(34)	15.7(9)	0.46	8084.61	76SE
8048.21(37)	6.0(4)	0.46	8048.66	76SE
7992.11(32)	23.7(12)	0.45	7992.56	76SE
7962.08(35)	6.5(4)	0.45	7962.53	76SE
7934.42(33)	8.5(5)	0.44	7934.87	76SE
7884.87(31)	11.8(6)	0.44	7885.31	76SE
7858.48(40)	3.5(3)	0.44	7858.92	76SE
7803.11(32)	10.5(6)	0.43	7803.54	76SE
7676.1(16)	2.1(6)	0.42	7676.5	
7644.94(40)	3.5(5)	0.41	7645.35	
7595.81(45)	6.4(11)	0.41	7596.22	76SE
7590.3(7)	4.0(10)	0.41	7590.7	
7549.53(28)	14.3(9)	0.40	7549.94	76SE
7502.64(29)	8.1(6)	0.40	7503.03	76SE
7430.0(22)	2.4(10)	0.39	7430.7	
7423.0(10)	10.4(16)	0.39	7423.4	76SE
7407.6(14)	3.1(8)	0.39	7408.0	
7384.1(12)	2.3(6)	0.39	7384.5	
7292.70(31)	7.4(6)	0.38	7293.08	76SE
7280.8(7)	2.7(4)	0.37	7281.2	
7247.43(29)	6.9(5)	0.37	7247.80	76SE
7237.9(6)	3.2(4)	0.37	7238.3	76SE
7226.8(16)	1.7(7)	0.37	7227.2	

* INTENSITIES ARE NORMALIZED TO THE 8724KEV TRANSITION

TABLE 3.1 CONTINUED

E_γ (ERROR) IN KEV	I_γ (ERROR) *	RECOIL ENERGY IN KEV	TRANSITION ENERGY IN KEV	COMMENTS
7221.08(37)	8.5(8)	0.37	7221.45	76SE
7187.5(5)	6.0(7)	0.37	7187.8	(75SE?)
7152.02(22)	19.5(12)	0.36	7152.38	76SE
7138.63(46)	9.3(10)	0.36	7138.99	
7109.20(18)	14.2(8)	0.36	7109.56	76SE
7090.27(49)	2.3(3)	0.36	7090.62	
7039.09(39)	3.4(4)	0.35	7039.44	
6974.31(46)	5.2(6)	0.34	6974.66	
6967.7(13)	1.2(5)	0.34	6968.0	
6953.6(7)	3.0(5)	0.34	6953.9	
6947.32(41)	5.3(6)	0.34	6947.66	76SE
6935.23(30)	4.7(4)	0.34	6935.57	
6913.31(20)	8.8(6)	0.34	6913.65	76SE
6896.38(20)	8.6(6)	0.34	6896.71	76SE
6871.03(40)	3.4(4)	0.33	6871.36	76SE
6853.22(41)	6.3(6)	0.33	6853.56	
6818.8(11)	2.3(6)	0.33	6819.2	
6807.8(7)	6.9(14)	0.33	6808.1	
6802.6(7)	7.4(14)	0.33	6802.9	76SE
6784.43(21)	7.8(5)	0.33	6784.76	(+75SE?)
6769.90(13)	24.5(13)	0.32	6770.22	76SE
6752.16(47)	2.8(4)	0.32	6752.48	
6737.17(41)	4.0(4)	0.32	6737.49	
6729.3(6)	2.7(4)	0.32	6729.6	
6715.5(8)	4.8(14)	0.32	6715.8	
6695.37(47)	2.4(3)	0.32	6695.69	
6680.00(24)	5.9(4)	0.32	6680.32	76SE
6669.7(11)	2.6(9)	0.31	6670.0	
6664.88(27)	11.5(11)	0.31	6665.19	76SE
6631.(3)	6.5(12)	0.31	6631.	76SE @
6577.03(35)	3.9(4)	0.31	6577.34	
6565.11(48)	2.8(4)	0.30	6565.42	
6551.03(33)	4.3(4)	0.30	6551.33	
6535.41(39)	3.4(4)	0.30	6535.71	
6511.7(11)	1.7(4)	0.30	6512.0	
6480.09(32)	3.9(4)	0.30	6480.39	
6402.34(43)	9.7(6)	0.29	6402.62	76SE
6385.1(10)	1.6(4)	0.29	6385.4	
6332.95(17)	8.3(5)	0.28	6333.23	
6292.44(24)	5.9(5)	0.28	6292.72	
6281.19(40)	5.2(5)	0.28	6281.47	
6274.6(11)	2.1(5)	0.28	6274.9	
6265.54(22)	8.8(6)	0.28	6265.81	
6249.16(42)	4.2(5)	0.28	6249.43	
6156.5(6)	3.6(5)	0.27	6156.8	

* INTENSITIES ARE NORMALIZED TO THE 8724KEV TRANSITION
@ AFTER SUBTRACTION OF CLOLINE CONTAMINATION

TABLE 3.1 CONTINUED

E_γ(ERROR) IN KEV	I_γ(ERROR)*	RECOIL ENERGY IN KEV	TRANSITION ENERGY IN KEV	COMMENTS
6141.(4)	Ø.9(7)	Ø.27	6141.	
6121.81(18)	18.8(12)	Ø.27	6122.Ø7	76SE
6Ø14.(5)	16.(5)	Ø.26	6Ø14.	76SE @
5984.5(15)	2.8(8)	Ø.25	5984.8	
5977.6(6)	4.1(6)	Ø.25	5977.9	
5958.52(2Ø)	7.3(5)	Ø.25	5958.78	76SE
5949.33(41)	3.1(4)	Ø.25	5949.58	
5893.Ø(9)	1.4(3)	Ø.25	5893.2	
588Ø.7(1Ø)	Ø.9(2)	Ø.24	588Ø.9	
5215.(5)	7.4(12)	Ø.19	5215.	76SE @

* INTENSITIES ARE NORMALIZED TO THE 8724KEV TRANSITION
@ AFTER SUBTRACTION OF CONTRIBUTIONS FROM THE 74SE(n,γ) REACTION

TABLE 3.2 LOW ENERGY γ-RAYS IN THE 75SE(n,γ) REACTION

Eγ(ERROR) IN KEV	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV	COMMENTS
1787.80(26)	23.	1787.82	76SE
1624.2(6)	19.	1624.2	
1611.8(4)	18.	1611.8	
1596.32(23)	18.	1596.34	
1568.00(7)	17.	1568.02	76SE
1528.94(8)	17.	1528.96	
1493.97(10)	16.	1493.99	
1474.34(6)	15.	1474.36	
1470.61(17)	15.	1470.62	
1453.59(11)	15.	1453.61	
1378.69(21)	13.	1378.70	
1359.09(10)	13.	1359.10	
1332.51(9)	13.	1332.53	
1286.77(19)	12.	1286.78	
1285.54(30)	12.	1285.55	
1283.89(23)	12.	1283.90	
1228.60(4)	11.	1228.61	76SE
1216.086(20)	10.	1216.096	76SE
1212.89(4)	10.	1212.90	76SE
1159.71(5)	9.5	1159.72	
1147.51(14)	9.3	1147.52	
1129.832(16)	9.0	1129.841	76SE
1058.06(8)	7.9	1058.07	
1031.45(10)	7.5	1031.46	
980.47(10)	6.8	980.47	
954.49(5)	6.4	954.50	
885.841(30)	5.5	885.846	
882.22(7)	5.5	882.23	76SE
868.11(12)	5.3	868.12	76SE
830.37(14)	4.9	830.38	
809.812(7)	4.6	809.817	76SE
800.49(6)	4.5	800.49	76SE
798.81(6)	4.5	798.81	76SE
796.06(6)	4.5	796.06	
771.743(8)	4.2	771.747	76SE
740.168(25)	3.9	740.172	76SE
726.997(9)	3.7	727.001	76SE
697.40(10)	3.4	697.40	76SE
695.124(8)	3.4	695.127	76SE
665.350(5)	3.1	665.353	76SE
657.028(4)	3.0	657.031	76SE
598.776(6)	2.5	598.779	76SE
575.296(11)	2.3	575.298	76SE
571.488(8)	2.3	571.490	76SE
568.053(11)	2.3	568.055	

TABLE 3.2 CONTINUED

E γ(ERROR) IN KEV	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV	COMMENTS
563.167(3)	2.2	563.169	76SE
559.092(3)	2.2	559.094	76SE
548.020(12)	2.1	548.022	76SE
540.355(16)	2.1	540.357	76SE
472.803(3)	1.6	472.805	76SE
464.638(21)	1.5	464.640	76SE
456.77(5)	1.5	456.77	
438.245(3)	1.4	438.246	76SE
430.631(27)	1.3	430.632	76SE
403.088(6)	1.1	403.089	76SE
359.659(4)	1.1	395.660	76SE
382.899(8)	1.0	382.900	76SE
358.638(5)	0.91	358.639	
358.0923(24)	0.91	358.0932	76SE
339.5633(21)	0.81	339.5641	76SE

TABLE 4.1 GAMMA RAYS IN THE 76SE(n,γ) REACTION

NO.	Eγ(ERROR) IN KEV	Iγ(ERROR) /100N	RECOIL ENERGY IN KEV	TRANSITION ENERGY IN KEV
1	7418.47(22)	5.54(29)	0.38	7418.85
2	7179.49(16)	3.88(20)	0.36	7179.85
3	6906.3(10)	0.008(3)	0.33	6906.7
4	6897.90(18)	0.082(6)	0.33	6898.23
5	6887.5(12)	0.006(3)	0.33	6887.8
6	6600.73(8)	9.4(5)	0.30	6601.03
7	6507.02(11)	0.254(15)	0.30	6507.32
8	6413.40(7)	2.83(15)	0.29	6413.68
9	6290.87(22)	0.076(7)	0.28	6291.15
10	6231.57(7)	1.49(8)	0.27	6231.84
11	6054.59(15)	0.124(10)	0.26	6054.84
12	6016.16(7)	1.50(8)	0.25	6016.41
13	6006.97(6)	4.34(22)	0.25	6007.22
14	5930.31(16)	0.111(9)	0.25	5930.56
15	5907.54(9)	0.300(17)	0.24	5907.79
16	5838.6(10)	0.010(6)	0.24	5838.8
17	5810.67(14)	0.099(9)	0.24	5810.91
18	5795.46(6)	1.87(10)	0.23	5795.69
19	5773.3(7)	0.020(6)	0.23	5773.55
20	5716.8(6)	0.023(6)	0.23	5717.0
21	5703.92(8)	0.408(23)	0.23	5704.15
22	5628.6(5)	0.037(8)	0.22	5628.8
23	5600.99(6)	4.58(23)	0.22	5601.21
24	5587.82(24)	0.164(17)	0.22	5588.04
25	5502.47(9)	0.231(14)	0.21	5502.68
26	5483.4(7)	0.017(5)	0.21	5483.6
27	5432.4(5)	0.030(6)	0.21	5432.6
28	5362.7(5)	0.030(6)	0.20	5362.9
29	5344.6(5)	0.033(6)	0.20	5344.8
30	5330.1(5)	0.035(6)	0.20	5330.3
31	5291.6(11)	0.010(5)	0.20	5291.8
32	5276.25(8)	0.345(19)	0.19	5276.44
33	5205.47(8)	0.634(36)	0.19	5205.65
34	5186.0(9)	0.022(10)	0.19	5186.1
35	5170.33(7)	0.445(25)	0.19	5170.51
36	5164.5(13)	0.011(7)	0.19	5164.7
37	5154.47(6)	0.79(4)	0.19	5154.65
38	5148.3(8)	0.017(7)	0.19	5148.5
39	5139.6(10)	0.010(6)	0.18	5139.8
40	5123.90(34)	0.032(7)	0.18	5124.08
41	5109.0(8)	0.022	0.18	5109.2
42	5098.56(9)	0.448(26)	0.18	5098.74
43	5078.72(9)	0.486(28)	0.18	5078.90
44	5067.3(8)	0.024(8)	0.18	5067.5
45	5043.40(27)	0.106(12)	0.18	5043.58
46	5038.7(8)	0.035(10)	0.18	5038.9
47	5025.85(7)	2.22(12)	0.18	5026.02
48	4981.07(22)	0.069(8)	0.17	4981.24
49	4969.3(10)	0.016(8)	0.17	4969.5
50	4962.62(11)	0.547(35)	0.17	4962.80

TABLE 4.1 CONTINUED

NO.		Eγ(ERROR) IN KEV	Iγ(ERROR) /100N	RECOIL ENERGY IN KEV	TRANSITION ENERGY IN KEV
51		4959.45(45)	0.087(22)	0.17	4959.62
52	*	4946.50(33)	0.050(8)	0.17	4946.67
53		4926.58(7)	0.709(38)	0.17	4926.74
54		4917.6(17)	0.008(6)	0.17	4917.8
55		4909.99(23)	0.064(7)	0.17	4910.16
56		4891.4(5)	0.025(6)	0.17	4891.6
57		4865.11(14)	0.124(9)	0.17	4865.27
58		4842.7(7)	0.019(6)	0.16	4842.9
59		4835.40(19)	0.087(8)	0.16	4835.56
60		4818.00(29)	0.049(7)	0.16	4818.16
61		4808.1(8)	0.018(6)	0.16	4808.3
62		4801.2(7)	0.037(11)	0.16	4801.4
63		4798.0(11)	0.022(11)	0.16	4798.1
64		4778.11(12)	0.188(13)	0.16	4778.27
65		4769.76(48)	0.032(7)	0.16	4769.92
66		4759.4(7)	0.028(7)	0.16	4759.5
67		4754.8(10)	0.017(7)	0.16	4755.0
68		4733.4(9)	0.017(6)	0.16	4733.6
69		4702.82(13)	0.326(22)	0.15	4702.97
70		4698.88(26)	0.165(16)	0.15	4699.03
71		4694.5(12)	0.018(9)	0.15	4694.6
72		4672.01(37)	0.037(8)	0.15	4672.16
73		4667.6(8)	0.017(7)	0.15	4667.7
74		4648.0(8)	0.024(8)	0.15	4648.1
75		4642.07(10)	0.402(24)	0.15	4642.22
76	#	4636.4(29)	0.007(8)	0.15	4636.5
77		4623.15(46)	0.041(10)	0.15	4623.30
78		4609.56(8)	0.855(45)	0.15	4609.71
79		4603.21(11)	0.299(18)	0.15	4603.36
80		4565.50(8)	2.20(12)	0.15	4565.65
81		4561.66(10)	0.786(46)	0.15	4561.80
82		4554.8(15)	0.012(8)	0.15	4555.0
83		4545.64(9)	0.697(37)	0.14	4545.78
84		4526.81(9)	1.63(9)	0.14	4526.96
85	#	4516.7(44)	0.003(7)	0.14	4516.8
86		4504.25(12)	0.210(14)	0.14	4504.39
87		4489.3(5)	0.025(7)	0.14	4489.5
88		4484.4(6)	0.022(7)	0.14	4484.6
89		4471.69(19)	0.107(10)	0.14	4471.83
90		4465.1(14)	0.013(7)	0.14	4465.24
91		4459.53(19)	0.116(10)	0.14	4459.67
92		4451.4(8)	0.022(7)	0.14	4451.5
93		4445.5(8)	0.023(7)	0.14	4445.7
94		4435.76(10)	0.467(26)	0.14	4435.90
95		4429.3(9)	0.023(8)	0.14	4429.5
96		4424.22(13)	0.244(16)	0.14	4424.35
97		4418.1(7)	0.026(8)	0.14	4418.2
98		4412.55(15)	0.234(16)	0.14	4412.69
99		4408.1(8)	0.027(9)	0.14	4408.2
100		4387.8(5)	0.032(7)	0.13	4388.0

* POSSIBLE CONTAMINATION BY THE $^{12}C(n,\gamma)$ REACTION

\# EXISTANCE QUESTIONABLE

TABLE 4.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ(ERROR) /100N	RECOIL ENERGY IN KEV	TRANSITION ENERGY IN KEV
101	4378.25(9)	1.25(7)	0.13	4378.38
102	4367.91(12)	0.334(20)	0.13	4368.05
103	4360.2(13)	0.014(7)	0.13	4360.3
104	4354.73(10)	0.590(32)	0.13	4354.86
105	4343.2(12)	0.014(7)	0.13	4343.3
106	4338.46(43)	0.048(8)	0.13	4338.59
107	4333.5(6)	0.032(8)	0.13	4333.6
108	4320.0(5)	0.043(7)	0.13	4320.2
109	4313.7(9)	0.023(6)	0.13	4313.8
110	4304.29(24)	0.098(9)	0.13	4304.43
111	4296.1(6)	0.037(7)	0.13	4296.2
112	4288.18(15)	0.220(14)	0.13	4288.31
113	4276.9(7)	0.047(10)	0.13	4277.0
114	4273.2(6)	0.055(10)	0.13	4273.4
115	4263.96(17)	0.185(12)	0.13	4264.09
116	4257.56(27)	0.095(9)	0.13	4257.69
117	4250.50(18)	0.152(11)	0.13	4250.63
118	4243.48(14)	0.319(19)	0.13	4243.60
119 #	4239.(5)	0.005(7)	0.13	4239.
120	4231.1(8)	0.048(13)	0.13	4231.3
121	4227.79(22)	0.212(18)	0.13	4227.92
122	4222.71(18)	0.184(13)	0.12	4222.84
123	4214.3(22)	0.008(6)	0.12	4214.4
124	4206.32(17)	0.155(11)	0.12	4206.45
125	4199.28(43)	0.049(7)	0.12	4199.40
126	4185.94(11)	0.607(33)	0.12	4186.06
127	4180.39(30)	0.056(9)	0.12	4180.51
128	4174.78(11)	0.539(30)	0.12	4174.90
129	4168.23(28)	0.054(8)	0.12	4168.35
130	4162.8(5)	0.031(7)	0.12	4162.9
131	4158.02(18)	0.104(10)	0.12	4158.14
132	4138.84(19)	0.144(12)	0.12	4138.96
133	4134.3(8)	0.061(18)	0.12	4134.4
134	4131.3(6)	0.073(19)	0.12	4131.5
135	4121.86(37)	0.057(8)	0.12	4122.98
136	4117.4(10)	0.020(7)	0.12	4117.6
137	4110.56(41)	0.051(8)	0.12	4110.68
138	4105.88(15)	0.244(16)	0.12	4106.00
139	4100.58(25)	0.091(9)	0.12	4100.70
140	4091.27(20)	0.163(14)	0.12	4091.39
141	4087.7(9)	0.028(11)	0.12	4087.8
142	4080.66(37)	0.061(8)	0.12	4080.78
143	4075.20(27)	0.088(9)	0.12	4075.32
144	4069.6(4)	0.057(8)	0.12	4069.7
145	4064.43(14)	0.332(20)	0.12	4064.55
146	4056.77(13)	0.434(25)	0.12	4056.89
147	4051.92(21)	0.173(13)	0.11	4052.03
148	4047.2(5)	0.054(9)	0.11	4047.3
149	4040.12(22)	0.113(10)	0.11	4040.24
150	4033.75(13)	0.388(23)	0.11	4033.87

EXISTANCE QUESTIONABLE

TABLE 4.1 CONTINUED

NO.	Eγ (ERROR) IN KEV	Iγ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
151	4028.9(22)	0.010(8)	113.	4029.0
152	4022.76(17)	0.326(22)	113.	4022.87
153	4019.0(10)	0.054(14)	113.	4019.1
154	4015.7(16)	0.023(14)	112.	4015.8
155	4006.28(32)	0.198(31)	112.	4006.39
156	4003.56(27)	0.325(32)	112.	4003.67
157	3999.5(7)	0.050(11)	112.	3999.6
158	3986.58(35)	0.065(8)	111.	3986.69
159	3978.73(25)	0.114(10)	110.	3978.84
160	3972.96(13)	0.596(33)	110.	3973.07
161	3968.35(14)	0.555(32)	110.	3968.46
162	3964.09(35)	0.106(12)	110.	3964.20
163	3952.70(23)	0.146(11)	109.	3952.81
164	3945.92(14)	0.479(27)	109.	3946.03
165	3938.11(19)	0.266(10)	108.	3938.22
166	3934.25(36)	0.120(13)	108.	3934.36
167	3927.3(8)	0.033(8)	108.	3927.4
168	3919.2(14)	0.021(9)	107.	3919.3
169	3914.9(8)	0.064(13)	107.	3915.1
170	3911.3(11)	0.096(33)	107.	3911.4
171	3908.85(24)	0.394(42)	107.	3908.96
172	3902.91(34)	0.305(50)	106.	3903.01
173	3900.67(17)	0.840(65)	106.	3900.78
174	3892.6(14)	0.021(9)	106.	3892.7
175	3888.12(25)	0.188(14)	105.	3888.22
176	3882.92(13)	0.655(36)	105.	3883.02
177	3873.03(15)	0.368(22)	105.	3873.14
178	3866.28(15)	0.336(20)	104.	3866.38
179	3859.01(19)	0.491(40)	104.	3859.11
180	3856.56(39)	0.174(33)	104.	3856.66
181	3845.9(29)	0.008(7)	103.	3846.0
182	3836.26(46)	0.064(9)	103.	3836.36
183	3831.75(24)	0.197(15)	102.	3831.85
184	3828.0(7)	0.053(11)	102.	3828.1
185	3820.5(5)	0.047(8)	102.	3820.6
186	3810.35(20)	0.145(12)	101.	3810.45
187	3804.98(24)	0.119(11)	101.	3805.08
188	3896.45(21)	0.190(14)	100.	3796.55
189	3792.46(26)	0.128(12)	100.	3792.56
190	3786.18(30)	0.156(18)	100.	3786.28
191	3783.06(33)	0.142(16)	100.	3783.16
192	3777.4(5)	0.21(5)	99.	3777.5
193	3775.2(5)	0.19(5)	99.	3775.3
194	3765.0(9)	0.022(7)	99.	3765.1
195	3759.3(8)	0.030(9)	99.	3759.4
196	3755.34(32)	0.110(12)	98.	3755.44
197	3751.21(37)	0.120(16)	98.	3751.31
198	3748.14(40)	0.086(17)	98.	3748.24
199	3740.8(18)	0.010(7)	98.	3740.9
200	3735.2(14)	0.016(8)	97.	3735.3

TABLE 4.1 CONTINUED

NO.	E_γ (ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION. ENERGY IN KEV
201	3730.72(23)	0.121(11)	97.	3730.81
202	3724.19(33)	0.098(14)	97.	3724.29
203	3721.0(9)	0.035(12)	97.	3721.1
204	3716.1(5)	0.049(8)	96.	3716.2
205	3709.3(6)	0.043(9)	96.	3709.4
206	3705.41(35)	0.081(11)	96.	3705.51
207	3700.62(14)	0.499(28)	95.	3700.71
208	3692.97(15)	0.350(21)	95.	3693.06
209	3688.08(18)	0.329(22)	95.	3688.18
210	3684.5(10)	0.081(16)	95.	3684.6
211	3681.5(7)	0.087(17)	94.	3681.6
212	3675.7(7)	0.049(9)	94.	3675.8
213	3671.4(9)	0.053(10)	94.	3671.5
214	3667.6(7)	0.053(10)	94.	3667.7
215	3662.61(32)	0.107(10)	94.	3662.71
216	3655.9(7)	0.041(10)	93.	3656.0
217	3652.2(11)	0.027(10)	93.	3652.3
218	3647.21(22)	0.266(25)	93.	3647.30
219	3644.47(33)	0.143(23)	93.	3644.56
220	3636.35(17)	0.417(24)	92.	3636.44
221	3630.65(26)	0.196(14)	92.	3630.74
222	3625.3(7)	0.073(10)	92.	3625.4
223	3621.24(31)	0.397(40)	91.	3621.33
224	3618.7(12)	0.091(35)	91.	3618.8
225	3613.4(7)	0.060(19)	91.	3613.5
226	3610.6(6)	0.074(19)	91.	3610.7
227	3605.55(43)	0.061(10)	91.	3605.64
228	3601.28(29)	0.145(17)	90.	3601.37
229	3598.30(37)	0.092(17)	90.	3598.39
230	3591.77(26)	0.239(31)	90.	3591.86
231	3588.6(8)	0.18(5)	90.	3588.7
232	3586.1(5)	0.28(6)	90.	3586.2
233	3582.9(10)	0.054(15)	89.	3583.0
234	3577.6(13)	0.030(10)	89.	3577.7
235	3573.9(15)	0.023(9)	89.	3574.0
236	3568.28(29)	0.138(12)	89.	3568.37
237	3563.7(8)	0.075(15)	89.	3563.8
238	3560.5(15)	0.056(15)	88.	3560.5
239	3557.1(14)	0.085(19)	88.	3557.2
240	3554.1(7)	0.164(22)	88.	3554.1
241	3550.37(20)	0.615(37)	88.	3550.46
242	3546.0(8)	0.144(27)	88.	3546.1
243	3543.43(27)	0.171(22)	88.	3543.51
244	3539.17(27)	0.228(29)	87.	3539.26
245	3536.0(5)	0.219(34)	87.	3536.1
246	3533.52(28)	0.255(54)	87.	3533.60
247	3526.61(41)	0.043(9)	87.	3526.69
248	3522.0(5)	0.040(9)	86.	3522.1
249	3517.26(15)	0.472(29)	86.	3517.34
250	3513.9(7)	0.042(14)	86.	3514.0

TABLE 4.1 CONTINUED

NO.	Eγ (ERROR) IN KEV	Iγ(ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
251	3509.9(6)	0.030(10)	86.	3509.9
252	3504.71(16)	0.227(16)	86.	3504.80
253	3497.36(32)	0.064(9)	85.	3497.44
254	3490.75(27)	0.118(15)	85.	3490.83
255	3487.38(19)	0.293(21)	85.	3487.46
256	3483.01(15)	0.549(32)	85.	3483.10
257	3479.26(19)	0.235(19)	84.	3479.34
258	3472.90(33)	0.062(9)	84.	3472.98
259	3466.87(16)	0.311(20)	84.	3466.95
260	3462.55(40)	0.061(10)	84.	3462.63
261	3453.8(8)	0.035(10)	83.	3453.9
262	3449.69(37)	0.155(21)	83.	3449.77
263	3446.95(35)	0.159(22)	83.	3447.03
264	3442.0(7)	0.118(42)	83.	3442.1
265	3439.7(13)	0.065(42)	82.	3439.8
266	3434.85(27)	0.151(14)	82.	3434.93
267	3430.82(40)	0.115(14)	82.	3430.90
268	3427.3(6)	0.094(16)	82.	3427.4
269	3424.2(8)	0.052(17)	82.	3424.3
270	3418.1(5)	0.098(18)	81.	3418.2
271	3415.02(27)	0.303(26)	81.	3415.10
272	3412.14(26)	0.222(24)	81.	3412.22
273	3402.09(22)	0.186(16)	81.	3402.17
274	3398.8(14)	0.024(12)	81.	3398.8
275	3394.11(26)	0.160(16)	80.	3394.19
276	3390.8(5)	0.067(13)	80.	3390.9
277	3385.54(24)	0.301(34)	80.	3385.62
278	3383.09(29)	0.257(32)	80.	3383.17
279	3379.36(36)	0.101(14)	80.	3379.44
280	3374.2(9)	0.030(10)	79.	3374.3
281	3370.20(31)	0.149(13)	79.	3370.28
282	3365.5(4)	0.100(11)	79.	3365.6
283	3360.6(6)	0.119(25)	79.	3360.6
284	3358.16(45)	0.108(24)	79.	3358.24
285	3354.00(21)	0.244(19)	78.	3354.08
286	3349.91(35)	0.263(44)	78.	3349.99
287	3347.44(37)	0.260(44)	78.	3347.52
288	3342.9(6)	0.097(25)	78.	3343.0
289	3340.4(7)	0.156(23)	78.	3340.5
290	3336.9(8)	0.065(14)	78.	3337.0
291	3330.84(21)	0.349(22)	77.	3330.91
292	3326.7(6)	0.121(18)	77.	3326.7
293	3323.56(44)	0.200(20)	77.	3323.64
294	3320.1(8)	0.110(17)	77.	3320.2
295	3317.1(5)	0.126(18)	77.	3317.2
296	3311.30(27)	0.230(19)	76.	3311.38
297	3307.89(23)	0.354(24)	76.	3307.97
298	3302.92(26)	0.184(15)	76.	3303.00
299	3296.95(25)	0.393(37)	76.	3297.02
300	3294.54(29)	0.312(36)	76.	3294.61

TABLE 4.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
301	3289.28(41)	0.125(18)	75.	3289.35
302	3285.4(14)	0.17(12)	75.	3285.5
303	3283.0(23)	0.15(8)	75.	3283.1
304	3279.4(9)	0.32(7)	75.	3279.5
305	3277.3(8)	0.20(11)	75.	3277.3
306	3269.5(16)	0.032(22)	75.	3269.5
307	3266.1(17)	0.11(6)	74.	3266.2
308	3263.5(8)	0.21(5)	74.	3263.5
309	3260.27(32)	0.239(33)	74.	3260.34
310	3256.30(38)	0.078(14)	74.	3256.37
311	3251.94(32)	0.128(17)	74.	3252.01
312	3248.77(36)	0.105(16)	74.	3248.84
313	3244.19(24)	0.175(19)	73.	3244.26
314	3241.01(22)	0.260(22)	73.	3241.08
315	3237.79(31)	0.114(17)	73.	3237.86
316	3233.1(6)	0.28(6)	73.	3233.2
317	3230.9(13)	0.12(5)	73.	3231.0
318	3226.1(6)	0.128(17)	73.	3226.14
319	3223.1(11)	0.056(16)	72.	3223.2
320	3217.83(40)	0.189(21)	72.	3217.91
321	3214.89(42)	0.244(23)	72.	3214.97
322	3211.70(37)	0.194(20)	72.	3211.77
323	3206.59(20)	0.388(31)	72.	3206.66
324	3203.9(12)	0.053(21)	72.	3204.0
325	3200.5(8)	0.054(14)	71.	3200.6
326	3196.49(39)	0.080(12)	71.	3196.56
327	3190.32(16)	0.266(20)	71.	3190.39
328	3186.60(29)	0.19(6)	71.	3186.67
329	3184.6(6)	0.08(6)	71.	3184.7
330	3178.70(26)	0.074(13)	70.	3178.77
331	3175.15(17)	0.220(18)	70.	3175.22
332	3170.74(21)	0.112(13)	70.	3170.81
333	3166.75(42)	0.051(12)	70.	3166.82
334	3162.5(7)	0.10(6)	70.	3162.6
335	3159.7(15)	0.10(5)	70.	3159.8
336	3157.3(10)	0.10(9)	69.	3157.4
337	3154.07(26)	0.122(20)	69.	3154.14
338	3150.6(5)	0.045(13)	69.	3150.7
339	3147.0(6)	0.027(11)	69.	3147.1
340	3142.1(6)	0.047(13)	69.	3142.2
341	3138.8(21)	0.017(15)	69.	3138.9
342	3135.79(34)	0.128(18)	69.	3135.86
343	3132.66(46)	0.090(18)	68.	3132.73
344	3129.80(32)	0.101(18)	68.	3129.86
345	3122.4(6)	0.066(32)	68.	3122.5
346	3120.1(6)	0.124(24)	68.	3120.1
347	3116.6(7)	0.177(41)	68.	3117.7
348	3114.0(10)	0.12(5)	68.	3114.1
349	3110.21(21)	0.272(23)	67.	3110.28
350	3106.44(26)	0.116(15)	67.	3106.51

TABLE 4.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
351	3097.00(23)	0.112(12)	67.	3097.07
352	3091.5(8)	0.036(13)	67.	3091.5
353	3088.10(27)	0.167(18)	66.	3088.16
354	3085.1(8)	0.038(16)	66.	3085.2
355	3080.1(7)	0.16(8)	66.	3080.2
356	3077.6(22)	0.098(28)	66.	3077.7
357	3075.0(11)	0.07(6)	66.	3075.1
358	3070.28(24)	0.128(14)	66.	3070.35
359	3066.15(31)	0.095(13)	66.	3066.21
360	3060.58(25)	0.099(12)	65.	3060.64
361	3055.02(31)	0.086(12)	65.	3055.08
362	3051.04(21)	0.150(15)	65.	3051.11
363	3045.03(24)	0.125(14)	65.	3045.09
364	3040.52(16)	0.547(34)	64.	3040.59
365	3037.40(44)	0.066(17)	64.	3037.46
366	3030.80(33)	0.062(11)	64.	3030.86
367	3025.36(44)	0.061(13)	64.	3025.43
368	3022.1(5)	0.055(13)	64.	3022.1
369	3016.4(10)	0.048(32)	63.	3016.5
370	3013.97(40)	0.146(32)	63.	3014.03
371	3009.87(26)	0.112(14)	63.	3009.93
372	3004.83(39)	0.19(6)	63.	3004.89
373	3002.8(8)	0.08(6)	63.	3002.9
374	2997.02(26)	0.167(21)	63.	2997.09
375	2994.01(20)	0.279(24)	62.	2994.07
376	2989.73(38)	0.087(16)	62.	2989.79
377	2986.66(26)	0.156(19)	62.	2986.72
378	2982.72(19)	0.453(41)	62.	2982.79
379	2980.54(30)	0.156(37)	62.	2980.60
380	2973.0(6)	0.089(33)	62.	2973.1
381	2970.79(45)	0.134(32)	62.	2970.85
382	2964.66(18)	0.230(18)	61.	2964.72
383	2960.36(19)	0.201(17)	61.	2960.42
384	2953.9(6)	0.15(7)	61.	2954.0
385	2952.18(37)	0.20(7)	61.	2952.24
386	2946.5(6)	0.050(13)	61.	2946.6
387	2942.0(8)	0.063(20)	60.	2942.1
388	2939.3(13)	0.050(18)	60.	2939.4
389	2936.1(5)	0.092(17)	60.	2936.1
390	2929.02(21)	0.258(20)	60.	2929.08
391	2925.43(39)	0.163(23)	60.	2925.49
392	2922.75(22)	0.307(28)	60.	2922.81
393	2917.15(40)	0.104(16)	59.	2917.21
394	2913.99(27)	0.174(18)	59.	2914.05
395	2908.89(37)	0.133(19)	59.	2908.95
396	2905.99(28)	0.232(22)	59.	2906.05
397	2902.64(45)	0.090(15)	59.	2902.70
398	2895.39(45)	0.099(20)	58.	2895.45
399	2892.73(36)	0.151(21)	58.	2892.78
400	2889.4(6)	0.102(22)	58.	3889.4

TABLE 4.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
401	2886.74(27)	0.226(26)	58.	2886.80
402	2882.3(5)	0.094(21)	58.	2882.4
403	2879.60(20)	0.406(31)	58.	2879.66
404	2876.28(26)	0.249(24)	58.	2876.34
405	2873.00(17)	0.670(42)	58.	2873.06
406	2869.91(40)	0.137(21)	57.	2869.97
407	2866.55(26)	0.173(18)	57.	2866.60
408	2861.85(27)	0.126(14)	57.	2861.91
409	2857.06(44)	0.102(14)	57.	2857.12
410	2852.9(6)	0.102(16)	57.	2852.9
411	2849.8(6)	0.096(16)	57.	2849.9
412	2844.9(6)	0.069(13)	56.	2845.0
413	2840.50(24)	0.220(18)	56.	2840.56
414	2835.10(25)	0.230(19)	56.	2835.15
415	2831.1(5)	0.107(14)	56.	2831.2
416	2824.92(29)	0.163(15)	56.	2824.97
417	2818.30(24)	0.084(16)	55.	2818.36
418	2815.26(19)	0.172(20)	55.	2815.31
419	2812.22(23)	0.131(20)	55.	2812.28
420	2809.05(15)	0.503(33)	55.	2809.10
421	2805.33(18)	0.190(22)	55.	2805.38
422	2802.52(26)	0.079(19)	55.	2802.58
423	2797.48(17)	0.183(21)	55.	2797.54
424	2794.70(21)	0.120(20)	54.	2794.75
425	2789.50(20)	0.092(14)	54.	2789.55
426	2785.6(6)	0.045(16)	54.	2785.7
427	2782.75(36)	0.071(16)	54.	2782.81
428	2778.1(6)	0.11(6)	54.	2778.1
429	2776.14(32)	0.18(6)	54.	2776.20
430	2770.94(21)	0.132(16)	54.	2770.99
431	2767.36(35)	0.068(14)	53.	2767.41
432	2762.43(19)	0.192(19)	53.	2762.49
433	2759.3(9)	0.030(15)	53.	2759.3
434	2755.13(19)	0.158(17)	53.	2755.18
435	2750.78(22)	0.344(35)	53.	2750.84
436	2748.46(32)	0.211(31)	53.	2748.51
437	2745.02(34)	0.151(19)	53.	2745.07
438	2741.9(6)	0.081(17)	52.	2741.9
439	2738.3(6)	0.065(15)	52.	2738.3
440	2734.9(13)	0.026(14)	52.	2734.9
441	2730.4(8)	0.071(33)	52.	2730.4
442	2727.6(11)	0.081(21)	52.	2727.6
443	2724.73(46)	0.109(27)	52.	2724.78
444	2720.78(21)	0.42(6)	52.	2720.83
445	2718.77(18)	0.44(6)	52.	2718.82
446	2715.08(20)	0.196(20)	51.	2715.13
447	2710.35(30)	0.142(18)	51.	2710.40
448	2707.05(43)	0.121(20)	51.	2707.10
449	2704.3(13)	0.033(18)	51.	2704.3
450	2698.0(7)	0.070(18)	51.	2698.0

TABLE 4.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
451	2695.0(6)	0.104(19)	51.	2695.0
452	2692.00(37)	0.123(19)	51.	2692.05
453	2687.69(33)	0.119(16)	50.	2687.74
454	2684.1(6)	0.081(17)	50.	2684.1
455	2680.92(28)	0.163(19)	50.	2680.97
456	2675.93(16)	0.246(21)	50.	2675.98
457	2672.17(42)	0.063(16)	50.	2672.22
458	2668.8(8)	0.036(16)	50.	2668.9
459	2663.03(26)	0.147(24)	49.	2663.08
460	2659.3(6)	0.035(14)	49.	2659.3
461	2654.29(38)	0.112(16)	49.	2654.34
462	2649.9(5)	0.26(6)	49.	2650.0
463	2647.8(6)	0.18(6)	49.	2647.9
464	2644.1(6)	0.087(18)	49.	2644.2
465	2641.15(35)	0.173(23)	49.	2641.20
466	2638.42(39)	0.120(21)	49.	2638.47
467	2633.18(20)	0.271(23)	48.	2633.23
468	2629.67(25)	0.203(21)	48.	2629.72
469	2625.90(27)	0.239(26)	48.	2625.95
470	2623.24(29)	0.199(25)	48.	2623.29
471	2619.5(6)	0.127(19)	48.	2619.6
472	2616.16(30)	0.387(35)	48.	2616.21
473	2613.54(22)	0.69(5)	48.	2613.59
474	2610.43(32)	0.180(23)	48.	2610.48
475	2606.70(29)	0.171(21)	47.	2606.75
476	2603.50(30)	0.185(22)	47.	2603.55
477	2600.36(19)	0.321(26)	47.	2600.40
478	2595.2(6)	0.061(15)	47.	2595.2
479	2590.64(22)	0.58(6)	47.	2590.69
480	2588.4(7)	0.14(6)	47.	2588.5
481	2582.06(21)	0.220(20)	46.	2582.11
482	2577.27(40)	0.122(21)	46.	2577.32
483	2574.4(10)	0.061(18)	46.	2574.4
484	2568.95(21)	0.263(23)	46.	2568.99
485	2565.56(20)	0.316(26)	46.	2565.60
486	2561.6(10)	0.068(21)	46.	2561.6
487	2559.0(8)	0.070(23)	46.	2559.1
488	2555.58(19)	0.299(24)	46.	2555.62
489	2548.9(8)	0.043(14)	45.	2548.9
490	2543.8(7)	0.059(14)	45.	2543.8
491	2537.80(31)	0.134(17)	45.	2537.85
492	2533.3(9)	0.083(23)	45.	2533.4
493	2530.4(8)	0.104(21)	45.	2530.5
494	2526.6(9)	0.121(30)	45.	2526.6
495	2523.9(14)	0.071(32)	44.	2524.0
496	2519.8(9)	0.052(16)	44.	2519.9
497	2516.6(12)	0.042(16)	44.	2516.7
498	2513.07(46)	0.091(17)	44.	2513.12
499	2506.74(42)	0.109(18)	44.	2506.78
500	2503.5(10)	0.046(16)	44.	2503.6

TABLE 4.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
501	2497.56(40)	0.189(22)	43.	2497.60
502	2494.6(14)	0.054(19)	43.	2494.6
503	2491.4(8)	0.077(17)	43.	2491.4
504	2487.2(7)	0.095(17)	43.	2487.2
505	2483.02(30)	0.215(21)	43.	2483.06
506	2478.8(5)	0.194(27)	43.	2478.9
507	2476.0(5)	0.247(29)	43.	2476.0
508	2469.64(36)	0.203(22)	43.	2469.68
509	2465.22(26)	0.134(20)	42.	2465.26
510	2462.07(27)	0.146(21)	42.	2462.11
511	2458.93(29)	0.128(20)	42.	2458.97
512	2455.26(18)	0.266(24)	42.	2455.30
513	2451.89(31)	0.104(19)	42.	2451.93
514	2446.74(24)	0.131(18)	42.	2446.78
515	2441.77(32)	0.095(17)	42.	2441.81
516	2437.26(21)	0.171(20)	41.	2437.30
517	2433.37(24)	0.214(25)	41.	2433.42
518	2430.6(7)	0.053(22)	41.	2430.7
519	2426.03(22)	0.158(20)	41.	2426.07
520	2423.4(24)	0.068(22)	41.	2423.4
521	2420.0(10)	0.164(29)	41.	2420.0
522	2417.36(31)	0.355(49)	41.	2417.40
523	2414.99(42)	0.184(33)	41.	2415.03
524	2409.76(39)	0.102(18)	40.	2409.80
525	2406.27(31)	0.149(20)	40.	2406.31
526	2401.89(20)	0.309(25)	40.	2401.93
527	2394.68(32)	0.152(21)	40.	2394.72
528	2391.64(29)	0.177(22)	40.	2391.68
529	2385.01(36)	0.095(18)	40.	2385.05
530	2380.36(48)	0.166(34)	39.	2380.39
531	2377.9(9)	0.082(31)	39.	2377.9
532	2374.67(35)	0.125(21)	39.	2374.71
533	2371.10(19)	0.274(25)	39.	2371.14
534	2362.2(6)	0.134(34)	39.	2362.3
535	2359.8(6)	0.127(34)	39.	2359.9
536	2357.09(41)	0.107(23)	39.	2357.13
537	2352.94(27)	0.194(24)	39.	2352.97
538	2349.9(6)	0.076(21)	38.	2350.0
539	2344.00(32)	0.112(19)	38.	2344.04
540	2338.72(26)	0.078(19)	38.	2338.76
541	2335.39(29)	0.077(20)	38.	2335.43
542	2332.13(17)	0.191(25)	38.	2332.17
543	2329.16(21)	0.123(22)	38.	2329.19
544	2324.5(13)	0.033(31)	38.	2324.5
545	2322.35(23)	0.140(35)	38.	2322.38
546	2318.28(31)	0.078(18)	37.	2318.31
547	2314.33(15)	0.190(22)	37.	2314.36
548	2309.7(5)	0.093(35)	37.	2309.7
549	2307.50(21)	0.176(38)	37.	2307.54
550	2304.05(15)	0.209(24)	37.	2304.08

TABLE 4.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
551	2298.66(45)	0.045(17)	37.	2298.70
552	2292.0(5)	0.078(20)	37.	2292.1
553	2289.1(5)	0.076(23)	37.	2289.1
554	2286.3(6)	0.057(21)	36.	2286.3
555	2282.55(28)	0.120(21)	36.	2282.59
556	2278.65(32)	0.133(21)	36.	2278.68
557	2274.86(18)	0.225(25)	36.	2274.89
558	2270.12(32)	0.126(21)	36.	2270.17
559	2265.52(40)	0.243(36)	36.	2265.55
560	2263.34(21)	0.460(45)	36.	2263.37
561	2259.3(9)	0.070(21)	36.	2259.3
562	2256.3(6)	0.098(22)	35.	2256.4
563	2252.60(25)	0.326(29)	35.	2252.64
564	2249.02(27)	0.318(29)	35.	2249.05
565	2241.64(37)	0.147(22)	35.	2241.68
566	2238.3(7)	0.070(20)	35.	2238.4
567	2233.2(6)	0.086(19)	35.	2233.2
568	2227.91(27)	0.168(24)	35.	2227.94
569 *	2224.73(47)	0.104(25)	35.	2224.76
570 *	2222.09(15)	0.350(35)	34.	2222.13
571	2218.10(15)	0.435(38)	34.	2218.14
572	2215.40(14)	0.414(39)	34.	2215.44
573	2211.79(12)	0.478(37)	34.	2211.83
574	2206.82(29)	0.108(21)	34.	2206.85
575	2201.31(39)	0.098(20)	34.	2201.34
576	2197.06(24)	0.136(22)	34.	2197.10
577	2192.24(42)	0.072(22)	34.	2192.28
578	2189.06(15)	0.296(30)	33.	2189.09
579	2185.5(6)	0.053(21)	33.	2185.6
580	2181.99(27)	0.137(23)	33.	2182.02
581	2169.08(39)	0.093(23)	33.	2169.12
582	2166.27(46)	0.080(22)	33.	2166.31
583	2161.22(18)	0.224(26)	33.	2161.26
584	2156.20(32)	0.117(24)	32.	2156.23
585	2153.11(31)	0.137(25)	32.	2153.14
586	2149.69(35)	0.104(23)	32.	2149.72
587	2146.0(6)	0.069(22)	32.	2146.1
588	2142.68(12)	0.591(44)	32.	2142.71
589	2139.59(26)	0.171(28)	32.	2139.62
590	2136.12(21)	0.212(27)	32.	2136.15
591	2132.30(28)	0.179(25)	32.	2132.33
592	2127.30(42)	0.162(34)	32.	2127.33
593	2125.18(27)	0.190(38)	31.	2125.21
594	2120.5(8)	0.068(21)	31.	2120.5
595	2115.6(8)	0.063(21)	31.	2115.6
596	2111.11(25)	0.257(32)	31.	2111.14
597	2108.60(36)	0.139(30)	31.	2108.63
598	2104.86(36)	0.130(25)	31.	2104.89
599	2101.9(7)	0.056(23)	31.	2101.9
600	2097.18(29)	0.144(24)	31.	2097.21

* POSSIBLE CONTAMINATION BY THE $^1H(n,\gamma)$ REACTION

TABLE 4.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
601	2090.7(13)	0.11(7)	30.	2090.7
602	2088.4(8)	0.19(7)	30.	2088.4
603	2085.42(25)	0.204(31)	30.	2085.45
604	2080.65(35)	0.115(25)	30.	2080.68
605	2077.37(31)	0.135(26)	30.	2077.40
606	2073.67(13)	0.479(39)	30.	2073.70
607	2068.7(9)	0.040(23)	30.	2068.7
608	2065.5(7)	0.057(24)	30.	2065.6
609	2062.47(45)	0.086(25)	30.	2062.50
610	2058.85(30)	0.141(27)	30.	2058.88
611	2055.9(5)	0.081(26)	29.	2055.9
612	2052.4(5)	0.077(24)	29.	2052.4
613	2048.7(9)	0.056(24)	29.	2048.7
614	2045.8(8)	0.080(26)	29.	2045.8
615	2039.32(36)	0.172(27)	29.	2039.35
616	2034.87(19)	0.628(47)	29.	2034.89
617	2031.35(40)	0.177(30)	29.	2031.38
618	2027.7(5)	0.118(26)	29.	2027.7
619	2018.88(25)	0.078(29)	28.	2018.91
620	2016.65(14)	0.120(33)	28.	2016.68
621	2009.09(11)	0.226(36)	28.	2009.11
622	2006.87(20)	0.101(33)	28.	2006.89
623	2001.52(10)	0.192(30)	28.	2001.54
624	1998.29(12)	0.126(28)	28.	1998.32
625	1994.90(11)	0.173(32)	28.	1994.93
626	1992.02(12)	0.190(31)	28.	1992.05
627	1988.51(14)	0.146(35)	28.	1988.54
628	1985.78(17)	0.161(32)	27.	1985.81
629	1980.06(19)	0.328(36)	27.	1980.08
630	1976.7(5)	0.130(34)	27.	1976.7
631	1973.95(16)	0.454(46)	27.	1973.98
632	1970.92(20)	0.321(39)	27.	1970.95
633	1967.16(28)	0.106(28)	27.	1967.19
634	1963.41(10)	0.519(45)	27.	1963.44
635	1960.41(27)	0.114(31)	27.	1960.44
636	1957.03(24)	0.121(29)	27.	1957.06
637	1953.67(39)	0.071(28)	27.	1953.69
638	1950.70(29)	0.098(28)	27.	1950.72
639	1947.92(40)	0.086(21)	26.	1947.95
640	1945.05(11)	0.27(9)	26.	1945.07
641	1941.93(39)	0.097(19)	26.	1941.95
642	1939.21(22)	0.172(23)	26.	1939.24
643	1936.23(35)	0.085(17)	26.	1936.26
644	1924.01(42)	0.079(27)	26.	1924.03
645	1920.95(39)	0.083(28)	26.	1920.97
646	1916.23(6)	0.32(5)	26.	1916.26
647	1909.57(42)	0.058(12)	25.	1909.60
648	1902.22(30)	0.072(13)	25.	1902.24
649	1892.15(17)	0.120(16)	25.	1892.17
650	1883.51(41)	0.026(7)	25.	1883.54

TABLE 4.1 CONTINUED

NO.	Eγ(ERROR) IN KEV	Iγ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
651	1878.62(21)	0.088(14)	25.	1878.65
652	1872.23(5)	0.68(9)	24.	1872.25
653	1868.78(22)	0.112(17)	24.	1868.81
654	1855.19(32)	0.092(21)	24.	1855.21
655	1852.40(38)	0.084(21)	24.	1852.42
656	1847.89(5)	0.65(7)	24.	1847.91
657	1841.14(40)	0.054(13)	24.	1841.16
658	1837.52(16)	0.136(18)	24.	1837.55
659	1830.96(11)	0.183(22)	23.	1830.99
660	1824.39(28)	0.066(13)	23.	1824.41
661	1820.18(27)	0.073(13)	23.	1820.20
662	1815.65(19)	0.105(16)	23.	1815.67
663	1810.67(23)	0.085(14)	23.	1810.70
664	1803.89(11)	0.185(22)	23.	1803.92
665	1799.71(13)	0.153(19)	23.	1799.73
666	1790.24(5)	0.47(5)	22.	1790.26
667	1785.97(37)	0.099(34)	22.	1785.99
668	1778.41(43)	0.139(34)	22.	1778.44
669	1774.1(6)	0.079(35)	22.	1774.1
670	1771.33(35)	0.115(36)	22.	1771.36
671	1764.5(6)	0.067(33)	22.	1764.5
672	1759.57(31)	0.123(36)	22.	1759.59
673	1756.12(42)	0.098(35)	21.	1756.15
674	1751.25(21)	0.166(35)	21.	1751.27
675	1745.41(29)	0.074(15)	21.	1745.43
676	1742.91(12)	0.174(22)	21.	1742.93
677	1734.45(35)	0.046(16)	21.	1734.47
678	1729.29(10)	0.230(27)	21.	1729.31
679	1727.21(16)	0.181(23)	21.	1727.23
680	1725.17(9)	0.285(32)	21.	1725.19
681	1721.10(20)	0.067(16)	21.	1721.12
682	1714.760(43)	0.477(45)	20.	1715.781
683	1712.99(6)	0.326(36)	20.	1713.01
684	1710.23(30)	0.068(15)	20.	1710.25
685	1704.23(14)	0.101(15)	20.	1704.25
686	1697.84(16)	0.122(16)	20.	1697.86
687	1692.15(13)	0.108(15)	20.	1692.17
688	1685.03(16)	0.093(14)	20.	1685.03
689	1677.342(46)	0.330(46)	20.	1677.361
690	1674.4(5)	0.13(5)	20.	1674.4
691	1672.3(9)	0.080(46)	19.	1672.3
692	1669.75(26)	0.091(23)	19.	1669.77
693	1665.71(20)	0.070(12)	19.	1665.73
694	1659.76(7)	0.301(39)	19.	1659.78
695	1655.91(15)	0.095(14)	19.	1655.93
696	1649.18(20)	0.067(12)	19.	1649.20
697	1645.93(21)	0.064(11)	19.	1645.95
698	1641.96(13)	0.099(14)	19.	1641.98
699	1638.37(14)	0.098(14)	19.	1638.39
700	1635.19(9)	0.131(15)	19.	1635.21

TABLE 4.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
701	1628.19(13)	0.066(36)	18.	1628.21
702	1625.10(28)	0.085(22)	18.	1625.12
703	1623.12(11)	0.62(6)	18.	1623.14
704	1621.74(19)	0.126(29)	18.	1621.76
705	1619.80(10)	0.175(19)	18.	1619.82
706	1615.18(24)	0.065(13)	18.	1615.20
707	1612.67(25)	0.058(13)	18.	1612.69
708	1606.76(13)	0.107(15)	18.	1606.78
709	1604.19(10)	0.147(18)	18.	1604.21
710	1594.32(16)	0.074(12)	18.	1594.34
711 *	1590.95(15)	0.086(13)	18.	1590.97
712	1587.49(11)	0.124(16)	18.	1587.51
713	1584.6(5)	0.285(45)	18.	1584.6
714	1581.0(4)	0.043(12)	17.	1581.0
715	1578.60(6)	0.613(41)	17.	1578.62
716	1575.22(14)	0.145(15)	17.	1575.24
717	1571.52(24)	0.055(15)	17.	1571.53
718	1568.410(29)	0.316(41)	17.	1568.427
719	1562.19(18)	0.067(12)	17.	1562.21
720	1551.18(15)	0.077(12)	17.	1551.19
721	1548.45(15)	0.079(12)	17.	1548.47
722	1541.60(15)	0.066(10)	17.	1541.62
723	1538.74(17)	0.223(27)	17.	1538.75
724	1533.98(12)	0.103(14)	16.	1534.00
725	1531.59(17)	0.098(15)	16.	1531.61
726	1529.48(5)	0.49(8)	16.	1529.50
727 *	1526.93(18)	0.059(10)	16.	1526.95
728	1523.22(12)	0.090(12)	16.	1523.23
729	1518.37(16)	0.062(10)	16.	1518.38
730	1513.49(33)	0.028(8)	16.	1513.50
731	1510.69(7)	0.161(18)	16.	1510.71
732	1506.932(40)	0.305(32)	16.	1506.948
733	1502.25(12)	0.071(11)	16.	1502.27
734	1495.93(36)	0.026(8)	16.	1495.95
735	1492.63(11)	0.085(12)	16.	1492.64
736	1489.80(21)	0.078(20)	15.	1489.81
737	1488.15(11)	0.225(38)	15.	1488.17
738	1485.20(19)	0.050(9)	15.	1485.22
739	1480.94(19)	0.043(9)	15.	1480.95
740	1475.759(22)	0.436(34)	15.	1475.774
741	1472.20(10)	0.087(12)	15.	1472.22
742	1465.61(11)	0.072(10)	15.	1465.62
743	1462.8(5)	0.027(13)	15.	1462.8
744	1461.00(13)	0.120(17)	15.	1461.01
745	1458.25(34)	0.036(10)	15.	1458.26
746	1456.22(24)	0.082(17)	15.	1456.23
747	1454.80(16)	0.110(19)	15.	1454.82
748	1452.43(22)	0.072(14)	15.	1452.45
749	1450.712(29)	0.32(8)	15.	1450.727
750	1447.82(33)	0.040(23)	15.	1447.83

* POSSIBLE CONTAMINATION BY THE $^{27}AL(n,\gamma)$ REACTION

TABLE 4.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
751	1446.30(8)	0.170(28)	15.	1446.32
752	1441.68(16)	0.044(8)	14.	1441.69
753	1437.36(18)	0.047(9)	14.	1437.38
754	1435.12(9)	0.102(13)	14.	1435.13
755	1425.57(17)	0.066(13)	14.	1425.59
756	1422.64(37)	0.031(11)	14.	1422.65
757	1417.932(41)	0.298(24)	14.	1417.946
758	1415.35(9)	0.135(18)	14.	1415.36
759	1411.603(12)	1.50(18)	14.	1411.617
760 *	1408.67(9)	0.179(22)	14.	1408.69
761	1406.76(12)	0.121(19)	14.	1406.78
762	1402.441(17)	0.477(37)	14.	1402.464
763	1395.642(24)	0.350(19)	14.	1395.656
764	1392.942(39)	0.228(13)	14.	1392.956
765	1391.38(8)	0.061(7)	13.	1391.39
766	1387.74(7)	0.086(7)	13.	1387.76
767	1384.136(14)	1.25(10)	13.	1384.149
768	1382.62(12)	0.107(15)	13.	1382.63
769	1379.85(26)	0.078(13)	13.	1379.86
770	1378.166(17)	0.72(6)	13.	1378.179
771	1376.17(5)	0.211(17)	13.	1376.18
772	1372.97(6)	0.134(12)	13.	1372.98
773	1368.70(13)	0.065(10)	13.	1368.71
774	1367.05(8)	0.145(14)	13.	1367.06
775	1365.30(9)	0.104(11)	13.	1365.31
776	1363.9(6)	0.023(12)	13.	1363.9
777	1362.91(26)	0.028(9)	13.	1362.93
778	1359.69(37)	0.013(4)	13.	1359.70
779	1355.96(28)	0.018(4)	13.	1355.97
780	1352.15(26)	0.028(5)	13.	1352.16
781	1349.83(23)	0.029(5)	13.	1349.84
782	1341.82(14)	0.051(10)	13.	1341.83
783	1339.48(34)	0.036(9)	13.	1339.49
784	1336.71(13)	0.080(10)	12.	1336.72
785	1334.29(7)	0.109(12)	12.	1334.30
786	1330.79(10)	0.055(7)	12.	1330.80
787	1327.63(26)	0.025(4)	12.	1327.64
788	1324.92(20)	0.031(5)	12.	1324.94
789	1321.29(6)	0.133(11)	12.	1321.31
790	1317.809(33)	0.197(16)	12.	1317.821
791	1314.87(14)	0.107(9)	12.	1314.89
792	1310.05(16)	0.066(12)	12.	1310.07
793	1306.534(13)	0.92(11)	12.	1306.545
794	1305.13(22)	0.079(16)	12.	1305.14
795	1302.68(13)	0.083(13)	12.	1302.69
796	1301.23(10)	0.136(16)	12.	1301.24
797	1299.60(23)	0.050(24)	12.	1299.61
798	1298.81(11)	0.195(27)	12.	1298.82
799	1296.978(13)	3.44(27)	12.	1296.990
800	1293.411(40)	0.181(17)	12.	1293.422

* POSSIBLE CONTAMINATION BY THE $^{27}AL(n,\gamma)$ REACTION

TABLE 4.1 CONTINUED

NO.	E γ(ERROR) IN KEV	Iγ(ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
801	1288.10(19)	0.026(11)	12.	1288.12
802	1286.137(17)	0.353(43)	12.	1286.149
803	1284.260(27)	0.209(16)	11.	1284.271
804	1282.625(39)	0.154(14)	11.	1282.636
805	1277.59(14)	0.028(6)	11.	1277.60
806	1275.26(11)	0.034(15)	11.	1275.27
807	1273.63(17)	0.056(7)	11.	1273.64
808	1272.05(6)	0.234(17)	11.	1272.07
809	1270.46(8)	0.081(17)	11.	1270.47
810	1269.7(5)	0.018(9)	11.	1269.7
811	1268.84(9)	0.077(9)	11.	1268.85
812	1266.48(12)	0.052(7)	11.	1266.49
813	1265.59(31)	0.063(20)	11.	1265.60
814	1264.57(9)	0.151(14)	11.	1264.58
815	1261.26(11)	0.056(10)	11.	1261.27
816	1252.133(46)	0.054(7)	11.	1252.144
817	1249.263(16)	0.211(14)	11.	1249.274
818	1247.54(11)	0.029(4)	11.	1247.55
819	1244.79(8)	0.043(6)	11.	1244.80
820	1243.18(8)	0.094(8)	11.	1243.19
821	1238.470(17)	0.181(22)	11.	1238.481
822	1236.053(44)	0.076(6)	11.	1236.063
823	1233.91(9)	0.0264(32)	11.	1233.92
824	1230.87(9)	0.080(6)	11.	1230.88
825	1229.15(12)	0.034(4)	11.	1229.16
826	1227.80(15)	0.040(7)	11.	1227.82
827	1226.48(6)	0.068(6)	10.	1226.49
828	1223.18(10)	0.034(6)	10.	1223.19
829	1221.10(26)	0.044(6)	10.	1221.11
830	1218.42(13)	0.031(9)	10.	1218.43
831	1213.83(14)	0.053(9)	10.	1213.85
832	1212.09(20)	0.040(9)	10.	1212.10
833	1209.91(15)	0.033(6)	10.	1209.92
834	1208.429(30)	0.174(17)	10.	1208.439
835	1205.88(27)	0.045(5)	10.	1205.89
836	1204.77(11)	0.036(6)	10.	1204.78
837	1202.354(14)	0.53(9)	10.	1202.364
838	1200.80(14)	0.037(7)	10.	1200.81
839	1197.72(7)	0.048(6)	10.	1197.73
840	1194.060(11)	0.328(37)	9.9	1194.070
841	1192.20(11)	0.033(5)	9.9	1192.21
842	1189.70(32)	0.025(15)	9.9	1189.71
843	1188.78(21)	0.048(7)	9.9	1188.79
844	1186.971(14)	0.394(43)	9.8	1186.980
845	1185.50(17)	0.030(7)	9.8	1185.52
846	1183.63(39)	0.018(7)	9.8	1183.64
847	1181.68(11)	0.042(8)	9.7	1181.69
848	1179.94(24)	0.052(28)	9.7	1179.95
849	1178.961(16)	0.220(29)	9.7	1178.971
850	1177.15(14)	0.037(8)	9.7	1177.16

TABLE 4.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
851	1175.65(10)	0.045(8)	9.6	1175.66
852	1172.593(12)	0.75(10)	9.6	1172.602
853	1171.12(8)	0.065(10)	9.6	1171.13
854	1168.30(6)	0.074(10)	9.5	1168.31
855	1164.90(8)	0.093(9)	9.5	1164.91
856	1163.461(6)	1.15(15)	9.4	1163.470
857	1161.823(7)	1.00(13)	9.4	1161.833
858	1158.83(23)	0.033(5)	9.4	1158.84
859	1152.782(29)	0.083(7)	9.3	1152.791
860	1150.614(39)	0.121(8)	9.2	1150.623
861	1147.99(15)	0.030(8)	9.2	1148.00
862	1146.998(21)	0.159(21)	9.2	1147.008
863	1141.94(20)	0.045(11)	9.1	1141.95
864	1139.960(18)	0.127(21)	9.1	1139.969
865	1137.39(7)	0.052(6)	9.0	1137.40
866	1136.35(31)	0.024(14)	9.0	1136.36
867	1133.055(30)	0.075(6)	8.9	1133.064
868	1131.46(8)	0.025(5)	8.9	1131.47
869	1128.086(7)	0.323(35)	8.9	1128.095
870	1125.192(24)	0.153(19)	8.8	1125.200
871	1124.32(13)	0.043(11)	8.8	1124.33
872	1123.53(20)	0.024(5)	8.8	1123.54
873	1120.32(17)	0.018(4)	8.7	1120.33
874	1117.244(7)	0.52(7)	8.7	1117.252
875	1115.22(17)	0.031(5)	8.7	1115.23
876	1111.579(18)	0.108(16)	8.6	1111.588
877	1110.335(30)	0.071(9)	8.6	1110.344
878	1107.44(15)	0.018(4)	8.5	1107.45
879	1105.425(43)	0.076(8)	8.5	1105.433
880	1104.624(38)	0.087(10)	8.5	1104.632
881	1100.70(15)	0.034(3)	8.4	1100.71
882	1096.87(34)	0.0067(25)	8.4	1096.88
883	1094.356(47)	0.059(6)	8.3	1094.364
884	1092.925(41)	0.065(8)	8.3	1092.934
885	1091.050(10)	0.369(44)	8.3	1091.058
886	1089.41(13)	0.021(4)	8.3	1089.41
887	1086.39(15)	0.0167(30)	8.2	1086.39
888	1083.643(19)	0.100(15)	8.2	1083.651
889	1081.89(39)	0.017(6)	8.2	1081.89
890	1080.395(45)	0.095(7)	8.1	1080.403
891	1077.47(12)	0.051(5)	8.1	1077.47
892	1076.33(15)	0.0222(42)	8.1	1076.34
893	1075.003(37)	0.120(14)	8.1	1075.011
894	1073.83(18)	0.0304(36)	8.0	1073.84
895	1071.577(12)	0.229(28)	8.0	1071.585
896	1066.69(6)	0.022(9)	7.9	1066.70
897	1065.30(20)	0.0160(32)	7.9	1065.31
898	1063.101(8)	0.288(26)	7.9	1063.109
899	1061.362(15)	0.130(8)	7.9	1061.370
900	1057.92(26)	0.0085(30)	7.8	1057.93

TABLE 4.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ(ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
901	1056.75(14)	0.0173(30)	7.8	1056.76
902	1055.48(18)	0.0115(28)	7.8	1055.49
903	1053.64(11)	0.0132(27)	7.7	1053.64
904	1052.212(47)	0.040(12)	7.7	1052.220
905	1051.25(18)	0.0223(30)	7.7	1051.26
906	1048.769(16)	0.155(25)	7.7	1048.776
907	1048.09(9)	0.037(5)	7.7	1048.09
908	1045.79(20)	0.0071(16)	7.6	1045.80
909	1039.389(14)	0.151(37)	7.5	1039.397
910	1037.86(5)	0.044(6)	7.5	1037.87
911	1036.41(14)	0.023(7)	7.5	1036.42
912	1035.37(7)	0.056(9)	7.5	1035.37
913	1033.62(7)	0.040(7)	7.4	1033.63
914	1032.56(13)	0.022(5)	7.4	1032.57
915	1030.50(13)	0.020(6)	7.4	1030.50
916	1028.53(9)	0.0230(40)	7.4	1028.54
917	1027.33(7)	0.0266(30)	7.4	1027.34
918	1026.19(5)	0.053(5)	7.3	1026.20
919	1024.997(23)	0.116(9)	7.3	1025.004
920	1022.88(20)	0.0264(43)	7.3	1022.88
921	1021.76(26)	0.0113(39)	7.3	1021.77
922	1020.41(8)	0.068(6)	7.3	1020.42
923	1018.443(38)	0.034(6)	7.2	1018.451
924	1009.56(38)	0.026(8)	7.1	1009.56
925	1008.33(15)	0.034(9)	7.1	1008.34
926	1005.178(8)	1.36(19)	7.0	1005.185
927	1003.639(32)	0.107(24)	7.0	1003.646
928	1001.19(8)	0.0304(42)	7.0	1001.20
929	999.731(35)	0.070(7)	7.0	999.738
930	995.16(11)	0.027(5)	6.9	995.17
931	993.202(45)	0.031(6)	6.9	993.209
932	991.610(12)	0.44(5)	6.9	991.617
933	990.388(15)	0.395(44)	6.9	990.395
934	980.969(14)	0.161(16)	6.7	980.976
935	978.525(18)	0.181(12)	6.7	978.532
936	976.99(14)	0.0172(30)	6.7	977.00
937	975.534(47)	0.0423(41)	6.6	975.541
938	973.01(6)	0.045(7)	6.6	973.02
939	972.243(33)	0.089(14)	6.6	972.250
940	970.526(21)	0.056(5)	6.6	970.533
941	969.00(5)	0.0267(33)	6.5	969.01
942	967.594(10)	0.212(25)	6.5	967.601
943	965.756(16)	0.069(5)	6.5	965.763
944	965.017(13)	0.167(38)	6.5	965.024
945	961.859(38)	0.041(10)	6.4	961.865
946	960.26(19)	0.0141(37)	6.4	960.27
947	959.086(31)	0.044(5)	6.4	959.092
948	957.112(17)	0.075(6)	6.4	957.119
949	954.74(12)	0.018(5)	6.4	954.74
950	951.735(17)	0.50(8)	6.3	951.742

TABLE 4.1 CONTINUED

NO.	Eγ(ERROR) IN KEV	Iγ(ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
951	951.349(34)	0.101(18)	6.3	951.355
952	948.73(16)	0.030(18)	6.3	948.74
953	948.013(45)	0.082(10)	6.3	948.019
954	946.953(5)	1.04(13)	6.3	946.959
955	946.02(10)	0.033(8)	6.2	946.03
956	945.38(13)	0.026(5)	6.2	945.39
957	942.879(33)	0.057(7)	6.2	942.885
958	942.06(9)	0.0221(41)	6.2	942.07
959	941.324(38)	0.047(9)	6.2	941.330
960	939.98(11)	0.0113(28)	6.2	939.99
961	937.133(42)	0.0320(27)	6.1	937.139
962	935.16(16)	0.0099(24)	6.1	935.16
963	934.07(14)	0.0103(24)	6.1	934.07
964	930.603(18)	0.075(5)	6.0	930.609
965	929.476(10)	0.095(7)	6.0	929.482
966	927.562(8)	0.098(12)	6.0	927.568
967	926.11(7)	0.0128(13)	6.0	926.11
968	920.683(28)	0.019(7)	5.9	920.689
969	918.971(36)	0.049(5)	5.9	918.977
970	917.26(7)	0.0133(22)	5.9	917.26
971	916.39(6)	0.0185(23)	5.9	916.40
972	915.438(43)	0.0201(25)	5.8	915.444
973	913.48(14)	0.0111(27)	5.8	913.49
974	911.560(21)	0.100(7)	5.8	911.566
975	910.54(11)	0.0133(23)	5.8	910.55
976	908.84(9)	0.0088(15)	5.8	908.85
977	905.946(26)	0.0447(38)	5.7	905.952
978	904.681(18)	0.087(6)	5.7	904.687
979	901.94(6)	0.0140(33)	5.7	901.95
980	899.879(17)	0.120(10)	5.6	899.885
981	897.953(18)	0.066(5)	5.6	897.958
982	896.894(9)	0.159(15)	5.6	897.000
983	892.89(16)	0.019(7)	5.6	892.90
984	892.24(16)	0.021(6)	5.5	892.24
985	890.967(6)	0.88(12)	5.5	890.972
986	890.305(22)	0.099(8)	5.5	890.310
987	888.748(16)	0.201(35)	5.5	888.753
988	885.815(5)	2.01(24)	5.5	885.821
989	884.41(11)	0.067(17)	5.5	884.42
990	883.74(13)	0.027(11)	5.4	883.74
991	882.823(5)	0.328(39)	5.4	882.828
992	878.89(10)	0.0218(25)	5.4	878.90
993	876.146(32)	0.0348(42)	5.4	876.152
994	875.19(9)	0.0113(25)	5.3	875.20
995	873.37(6)	0.0145(23)	5.3	873.37
996	872.20(6)	0.0162(24)	5.3	872.20
997	870.838(34)	0.0290(33)	5.3	870.843
998	869.53(12)	0.0058(16)	5.3	869.53
999	867.533(42)	0.0322(42)	5.2	867.538
1000	866.70(18)	0.0162(34)	5.2	866.70

TABLE 4.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ(ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
1001	865.77(17)	0.0133(34)	5.2	865.78
1002	861.88(7)	0.0113(17)	5.2	861.89
1003	860.462(18)	0.0341(30)	5.2	860.467
1004	858.68(5)	0.0155(20)	5.1	858.69
1005	857.32(7)	0.0099(15)	5.1	857.32
1006	855.365(39)	0.0183(22)	5.1	855.370
1007	852.52(8)	0.0093(15)	5.1	852.53
1008	851.25(12)	0.0104(20)	5.1	851.26
1009	850.41(7)	0.0192(25)	5.0	850.42
1010	849.43(6)	0.0151(21)	5.0	849.43
1011	847.091(31)	0.042(8)	5.0	847.096
1012	846.43(5)	0.033(5)	5.0	846.44
1013	845.88(7)	0.0237(44)	5.0	845.89
1014	845.183(46)	0.0151(21)	5.0	845.188
1015	843.650(15)	0.082(8)	5.0	843.655
1016	843.22(14)	0.025(12)	5.0	843.22
1017	842.72(10)	0.0245(24)	5.0	842.73
1018	840.53(8)	0.0101(18)	4.9	840.54
1019	839.71(10)	0.0085(17)	4.9	839.71
1020	837.50(9)	0.0060(12)	4.9	837.51
1021	836.65(6)	0.0137(17)	4.9	836.66
1022	835.666(44)	0.0204(23)	4.9	835.671
1023	834.81(5)	0.0121(18)	4.9	834.81
1024	832.09(8)	0.0191(25)	4.8	832.09
1025	831.289(7)	0.178(14)	4.8	831.294
1026	830.585(6)	0.220(19)	4.8	830.590
1027	829.630(33)	0.0326(33)	4.8	829.635
1028	828.92(9)	0.0200(37)	4.8	828.93
1029	826.96(7)	0.0113(17)	4.8	826.96
1030	826.04(14)	0.0108(26)	4.8	826.05
1031	824.48(8)	0.0170(38)	4.7	824.48
1032	822.649(25)	0.0221(20)	4.7	822.653
1033	821.38(11)	0.0085(20)	4.7	821.38
1034	819.79(7)	0.0123(21)	4.7	819.79
1035	817.846(6)	2.44(21)	4.7	817.851
1036	816.34(6)	0.0201(27)	4.6	816.34
1037	813.493(7)	0.107(8)	4.6	813.497
1038	812.419(21)	0.0330(20)	4.6	812.424
1039	811.570(26)	0.0163(13)	4.6	811.575
1040	809.85(19)	0.0027(9)	4.6	809.86
1041	809.020(39)	0.0132(19)	4.6	809.025
1042	808.099(10)	0.093(5)	4.6	808.104
1043	807.29(9)	0.0056(13)	4.5	807.29
1044	805.270(7)	0.094(6)	4.5	805.275
1045	803.233(45)	0.0182(27)	4.5	803.237
1046	802.32(15)	0.0062(21)	4.5	802.32
1047	801.52(8)	0.0111(16)	4.5	801.52
1048	800.53(6)	0.0129(16)	4.5	800.53
1049	799.524(38)	0.0286(33)	4.5	799.529
1050	798.83(14)	0.0058(18)	4.4	798.83

TABLE 4.1 CONTINUED

NO..	E_γ(ERROR) IN KEV	I_γ(ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
1051	795.91(6)	0.0135(19)	4.4	795.91
1052	794.83(7)	0.0125(18)	4.4	794.84
1053	793.305(17)	0.0318(26)	4.4	793.310
1054	791.146(7)	0.232(22)	4.4	791.150
1055	790.736(24)	0.044(7)	4.4	790.740
1056	790.35(5)	0.0216(35)	4.4	790.35
1057	788.999(9)	0.102(9)	4.3	790.004
1058	788.395(16)	0.0355(33)	4.3	788.400
1059	787.241(16)	0.0362(27)	4.3	787.246
1060	786.170(27)	0.066(12)	4.3	786.174
1061	785.038(14)	0.0486(34)	4.3	785.042
1062	783.298(33)	0.0157(16)	4.3	783.302
1063	781.871(29)	0.023(6)	4.3	781.875
1064	778.207(29)	0.014(8)	4.2	778.211
1065	777.381(9)	0.052(5)	4.2	777.386
1066	776.47(12)	0.0061(16)	4.2	776.48
1067	773.55(6)	0.0073(11)	4.2	773.55
1068	771.72(8)	0.0053(10)	4.2	772.73
1069	769.666(43)	0.0094(13)	4.1	769.670
1070	768.112(30)	0.0136(16)	4.1	768.116
1071	766.158(9)	0.076(5)	4.1	766.162
1072	765.18(8)	0.0150(16)	4.1	765.18
1073	764.54(31)	0.0048(14)	4.1	764.54
1074	763.27(13)	0.0059(22)	4.1	763.27
1075	762.585(30)	0.0295(38)	4.1	762.589
1076	759.71(8)	0.0115(18)	4.0	759.72
1077	757.83(11)	0.0112(37)	4.0	757.83
1078	757.17(10)	0.0128(37)	4.0	757.17
1079	756.09(8)	0.032(7)	4.0	756.10
1080	755.3835(35)	2.69(15)	4.0	755.3875
1081	753.69(15)	0.0147(29)	4.0	753.70
1082	751.89(9)	0.0147(34)	3.9	751.89
1083	749.5964(29)	0.598(34)	3.9	749.6003
1084	747.527(6)	0.098(7)	3.9	747.531
1085	744.85(10)	0.0101(29)	3.9	744.85
1086	742.763(34)	0.0102(23)	3.8	742.767
1087	740.6841(39)	0.137(9)	3.8	740.6879
1088	737.8902(43)	0.217(12)	3.8	737.8940
1089	736.32(5)	0.0119(17)	3.8	736.33
1090	735.38(6)	0.0130(20)	3.8	735.38
1091	734.62(22)	0.0055(28)	3.8	734.63
1092	733.91(19)	0.0071(30)	3.8	733.92
1093	732.945(23)	0.0184(20)	3.7	732.948
1094	732.323(12)	0.071(5)	3.7	732.327
1095	731.510(42)	0.0228(20)	3.7	731.514
1096	730.84(6)	0.0162(17)	3.7	730.84
1097	728.510(15)	0.0255(19)	3.7	728.514
1098	727.546(29)	0.0129(15)	3.7	727.550
1099	726.34(6)	0.0062(10)	3.7	726.35
1100	725.316(45)	0.0078(11)	3.7	725.320

TABLE 4.1 CONTINUED

NO.	E_γ (ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
1101	724.181(24)	0.0144(16)	3.7	724.185
1102	722.55(5)	0.0074(11)	3.6	722.55
1103	721.751(36)	0.0385(34)	3.6	721.755
1104	720.317(32)	0.0116(11)	3.6	720.321
1105	718.64(7)	0.0043(8)	3.6	718.65
1106	717.16(17)	0.0043(15)	3.6	717.16
1107	716.676(43)	0.010(5)	3.6	716.679
1108	716.06(5)	0.0098(28)	3.6	716.07
1109	715.06(11)	0.0035(8)	3.6	715.06
1110	714.35(12)	0.0039(9)	3.6	714.35
1111	713.28(15)	0.0046(16)	3.5	713.28
1112	712.439(11)	0.0453(27)	3.5	712.443
1113	711.5915(38)	0.186(9)	3.5	711.5950
1114	710.984(35)	0.0131(14)	3.5	710.988
1115	710.185(28)	0.0174(17)	3.5	710.189
1116	709.546(10)	0.0339(25)	3.5	709.550
1117	707.9709(32)	0.404(17)	3.5	707.9744
1118	706.43(7)	0.0048(8)	3.5	706.43
1119	705.38(5)	0.0077(11)	3.5	705.39
1120	704.044(10)	0.0321(19)	3.5	704.047
1121	703.49(5)	0.0082(17)	3.4	703.49
1122	702.537(40)	0.0057(15)	3.4	702.540
1123	702.01(6)	0.0082(12)	3.4	702.01
1124	701.506(14)	0.0442(41)	3.4	701.509
1125	699.96(10)	0.0046(12)	3.4	699.96
1126	699.04(13)	0.0034(11)	3.4	699.04
1127	698.058(29)	0.0139(21)	3.4	698.061
1128	697.095(21)	0.0084(31)	3.4	697.099
1129	696.152(12)	0.0248(17)	3.4	696.155
1130	693.144(10)	0.0301(21)	3.3	693.137
1131	692.11(11)	0.0037(12)	3.3	692.11
1132	691.45(5)	0.0072(12)	3.3	691.46
1133	689.517(12)	0.0435(24)	3.3	689.521
1134	688.044(20)	0.0090(16)	3.3	688.047
1135	686.553(11)	0.0458(24)	3.3	686.556
1136	685.366(40)	0.0049(7)	3.3	685.369
1137	684.157(6)	0.0364(20)	3.3	684.160
1138	683.35(8)	0.0056(9)	3.3	683.35
1139	682.12(8)	0.0039(8)	3.2	682.13
1140	680.605(12)	0.0149(10)	3.2	680.609
1141	679.89(10)	0.0030(8)	3.2	679.89
1142	678.67(5)	0.0059(25)	3.2	678.669
1143	678.187(10)	0.0502(24)	3.2	678.191
1144	676.161(8)	0.0312(18)	3.2	676.164
1145	675.045(11)	0.0155(10)	3.2	675.048
1146	672.98(6)	0.0059(11)	3.2	672.99
1147	671.9411(42)	0.0550(27)	3.1	671.9442
1148	670.357(13)	0.0703(42)	3.1	670.360
1149	669.125(23)	0.0090(9)	3.1	669.128
1150	668.205(32)	0.0082(16)	3.1	668.209

TABLE 4.1 CONTINUED

NO.	E_γ (ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
1151	667.31(10)	0.0035(9)	3.1	667.31
1152	666.770(31)	0.0123(23)	3.1	666.773
1153	666.3346(41)	0.155(8)	3.1	666.3377
1154	665.33(13)	0.0037(11)	3.1	665.33
1155	664.379(33)	0.0084(27)	3.1	664.382
1156	663.791(5)	0.0624(37)	3.1	663.794
1157	663.351(44)	0.0103(15)	3.1	663.354
1158	662.4986(43)	0.0590(30)	3.1	662.5017
1159	661.707(17)	0.0104(9)	3.1	661.710
1160	661.17(7)	0.0079(24)	3.0	661.17
1161	660.742(29)	0.0229(16)	3.0	660.745
1162	660.22(5)	0.0109(17)	3.0	660.23
1163	659.734(36)	0.0179(21)	3.0	659.737
1164	659.383(23)	0.0229(22)	3.0	659.386
1165	659.034(39)	0.0095(17)	3.0	659.037
1166	657.66(5)	0.0065(11)	3.0	657.66
1167	657.199(43)	0.0077(10)	3.0	657.202
1168	655.04(9)	0.0054(12)	3.0	655.05
1169	654.322(21)	0.0130(10)	3.0	654.325
1170	653.3(5)	0.016(9)	3.0	653.3
1171	652.497(17)	0.0224(15)	3.0	652.500
1172	652.057(22)	0.024(9)	3.0	652.060
1173	651.573(11)	0.0170(14)	3.0	651.576
1174	649.6103(36)	0.085(5)	2.9	649.6132
1175	648.55(5)	0.004(4)	2.9	648.56
1176	647.23(20)	0.0043(26)	2.9	647.23
1177	645.8211(23)	1.43(7)	2.9	645.8240
1178	643.689(13)	0.0165(16)	2.9	643.692
1179	640.577(33)	0.0039(10)	2.9	640.580
1180	635.62(14)	0.033(8)	2.8	635.62
1181	634.230(6)	0.083(5)	2.8	634.233
1182	632.84(6)	0.0055(6)	2.8	632.84
1183	631.525(24)	0.0114(16)	2.8	631.528
1184	630.46(9)	0.0031(5)	2.8	630.47
1185	628.225(42)	0.0059(8)	2.8	628.228
1186	625.14(5)	0.0076(15)	2.7	625.15
1187	623.54(6)	0.0054(6)	2.7	623.55
1188	620.8331(38)	0.145(8)	2.7	620.8358
1189	618.178(33)	0.0053(8)	2.7	618.180
1190	615.74(21)	0.0040(29)	2.6	615.75
1191	614.969(11)	0.0211(25)	2.6	614.971
1192	610.3706(25)	0.497(26)	2.6	610.3732
1193	607.4603(30)	0.383(20)	2.6	607.4629
1194	606.304(29)	0.0090(13)	2.6	606.306
1195	605.19(14)	0.0032(15)	2.6	605.19
1196	603.400(19)	0.0331(29)	2.5	603.402
1197	602.716(26)	0.0150(15)	2.5	602.729
1198	600.064(21)	0.0172(34)	2.5	600.066
1199	599.482(7)	0.156(13)	2.5	599.484
1200	599.116(26)	0.0180(40)	2.5	599.119

TABLE 4.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ(ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
1201	597.85(5)	0.0043(8)	2.5	597.85
1202	593.734(24)	0.098(9)	2.5	593.736
1203	593.549(13)	0.058(14)	2.5	593.551
1204	592.33(6)	0.0058(14)	2.4	592.33
1205	591.393(20)	0.0065(12)	2.4	591.395
1206	587.1820(40)	0.058(6)	2.4	587.1844
1207	585.433(5)	1.03(9)	2.4	585.435
1208	584.621(10)	0.0401(34)	2.4	584.623
1209	582.539(12)	0.0106(12)	2.4	582.541
1210	578.849(5)	3.30(32)	2.3	578.851
1211	577.44(5)	0.0061(14)	2.3	577.44
1212	576.72(12)	0.0031(13)	2.3	576.72
1213	575.30(9)	0.0060(18)	2.3	575.31
1214	574.6329(32)	0.72(7)	2.3	574.6352
1215	574.10(7)	0.0103(25)	2.3	574.10
1216	572.8445(39)	0.117(10)	2.3	572.8468
1217	569.171(6)	0.331(31)	2.3	569.174
1218	568.0571(29)	1.44(13)	2.3	568.0593
1219	565.7217(28)	0.537(45)	2.2	565.7239
1220	564.322(42)	0.0085(26)	2.2	564.324
1221	564.040(7)	0.050(7)	2.2	564.043
1222	563.50(8)	0.0051(16)	2.2	563.50
1223	562.338(37)	0.0032(6)	2.2	562.341
1224	561.734(13)	0.0076(7)	2.2	561.736
1225	559.617(31)	0.0023(14)	2.2	559.619
1226	559.095(43)	0.0122(43)	2.2	559.098
1227	558.844(23)	0.028(5)	2.2	558.847
1228	558.390(10)	0.0135(22)	2.2	558.392
1229	556.079(16)	0.0090(12)	2.2	556.082
1230	555.342(13)	0.0057(6)	2.1	555.345
1231	553.586(37)	0.0030(6)	2.1	553.588
1232	551.910(25)	0.0048(7)	2.1	551.912
1233	550.49(5)	0.0022(6)	2.1	550.49
1234	549.168(5)	0.0385(26)	2.1	549.170
1235	542.509(17)	0.0062(8)	2.1	542.511
1236	538.31(5)	0.0028(8)	2.0	538.31
1237	537.202(38)	0.0033(6)	2.0	537.205
1238	536.599(6)	0.0172(30)	2.0	536.601
1239	535.402(12)	0.0065(11)	2.0	535.404
1240	534.576(27)	0.0030(5)	2.0	534.578
1241	528.403(27)	0.0125(14)	1.9	528.405
1242	527.786(23)	0.0058(9)	1.9	527.788
1243	527.423(36)	0.0090(12)	1.9	527.425
1244	526.681(26)	0.0069(10)	1.9	526.683
1245	524.178(25)	0.0053(10)	1.9	524.180
1246	523.2680(40)	0.0319(46)	1.9	523.2699
1247	520.6301(30)	14.3(14)	1.9	520.6320
1248	518.1690(37)	3.26(31)	1.9	518.1709
1249	517.067(10)	0.041(12)	1.9	517.069
1250	513.544(11)	0.0117(19)	1.8	513.546

TABLE 4.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
1251	506.887(6)	0.037(8)	1.8	506.889
1252	506.452(15)	0.0142(18)	1.8	506.454
1253	505.8303(28)	0.102(17)	1.8	505.8321
1254	504.786(6)	0.307(41)	1.8	504.788
1255	503.894(22)	0.0136(33)	1.8	503.896
1256	494.9836(43)	0.178(25)	1.8	494.9853
1257	493.417(12)	0.0050(11)	1.7	493.419
1258	490.95(5)	0.0068(6)	1.7	490.96
1259	490.445(42)	0.0017(4)	1.7	490.446
1260	489.543(10)	0.0307(43)	1.7	489.544
1261	489.13(5)	0.0026(7)	1.7	489.14
1262	488.790(19)	0.0047(7)	1.7	488.792
1263	488.012(24)	0.0029(5)	1.7	488.013
1264	487.328(21)	0.0052(8)	1.7	487.330
1265	487.042(36)	0.0036(7)	1.7	487.044
1266	486.651(20)	0.0041(6)	1.7	486.653
1267	484.537(6)	1.34(20)	1.6	484.539
1268	483.0426(37)	0.178(25)	1.6	483.0442
1269	475.000(10)	0.0045(6)	1.6	475.002
1270	473.422(21)	0.0031(6)	1.6	473.423
1271	473.460(42)	0.0030(7)	1.6	473.462
1272	472.970(14)	0.0063(8)	1.6	472.872
1273	472.0663(24)	0.178(19)	1.6	472.0679
1274	471.005(8)	0.0069(7)	1.5	471.007
1275	467.758(23)	0.0026(5)	1.5	467.760
1276	466.344(8)	0.0043(9)	1.5	466.346
1277	465.471(33)	0.0017(4)	1.5	465.472
1278	464.627(11)	0.0045(4)	1.5	464.629
1279	463.278(11)	0.0073(8)	1.5	463.279
1280	456.8973(40)	0.0114(8)	1.5	456.8988
1281	456.101(38)	0.0045(7)	1.5	456.103
1282	455.83(8)	0.0058(10)	1.4	455.83
1283	455.4949(46)	0.055(7)	1.4	455.4964
1284	453.157(18)	0.0030(8)	1.4	453.158
1285	452.727(6)	0.0071(8)	1.4	452.728
1286	452.3436(21)	0.0285(26)	1.4	452.3450
1287	450.097(7)	0.0050(14)	1.4	450.098
1288	449.738(12)	0.0086(15)	1.4	449.740
1289	444.761(6)	0.0317(5)	1.4	444.762
1290	442.925(16)	0.0026(4)	1.4	442.926
1291	442.53(7)	0.0013(4)	1.4	442.53
1292	441.829(16)	0.0031(4)	1.4	441.830
1293	441.107(6)	0.0153(25)	1.4	441.109
1294	440.900(8)	0.0078(15)	1.4	440.902
1295	440.430(42)	0.0022(6)	1.4	440.431
1296	439.4503(45)	3.72(44)	1.3	439.4516
1297	436.721(26)	0.0025(6)	1.3	436.722
1298	436.181(10)	0.0053(5)	1.3	436.182
1299	434.971(21)	0.0025(4)	1.3	434.973
1300	431.664(22)	0.0034(6)	1.3	431.665

TABLE 4.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
1301	431.113(12)	0.0061(6)	1.3	431.114
1302	430.2969(42)	0.0404(24)	1.3	430.2982
1303	428.557(21)	0.0041(7)	1.3	428.558
1304	427.836(20)	0.0040(6)	1.3	427.837
1305	426.894(35)	0.0022(6)	1.3	426.895
1306	426.326(7)	0.0370(28)	1.3	426.327
1307	424.171(8)	0.0292(21)	1.3	424.172
1308	422.424(6)	0.0118(9)	1.2	422.426
1309	419.0744(35)	0.137(7)	1.2	419.0756
1310	417.641(23)	0.0058(7)	1.2	417.642
1311	412.778(7)	0.0201(13)	1.2	412.779
1312	406.478(22)	0.0039(5)	1.2	406.480
1313	406.185(16)	0.0103(9)	1.2	406.186
1314	405.694(7)	0.0573(34)	1.1	405.606
1315	405.046(12)	0.0078(10)	1.1	405.047
1316	404.427(22)	0.0022(6)	1.1	404.428
1317	397.2842(44)	0.302(15)	1.1	397.2853
1318	396.746(40)	0.0026(9)	1.1	396.747
1319	390.8828(42)	0.423(15)	1.1	390.8839
1320	384.9690(36)	0.426(24)	1.0	384.9700
1321	378.9377(37)	0.283(21)	1.0	378.9387
1322	378.3957(35)	0.0632(46)	1.0	378.3967
1323	368.7264(19)	0.331(21)	0.9	368.7274
1324	363.244(6)	0.0092(6)	0.9	363.245
1325	362.5352(26)	0.0252(13)	0.9	362.5361
1326	361.8491(33)	0.0284(11)	0.9	361.8500
1327	360.103(9)	0.0083(6)	0.9	360.104
1328	355.693(7)	0.0213(11)	0.9	355.694
1329	352.317(16)	0.0048(5)	0.9	352.317
1330	351.475(9)	0.0045(8)	0.9	351.476
1331	348.2854(42)	0.0085(39)	0.8	348.2862
1332	346.529(19)	0.0022(5)	0.8	346.530
1333	345.070(36)	0.0030(5)	0.8	345.071
1334	342.0052(23)	0.0648(41)	0.8	342.0060
1335	341.412(26)	0.0054(10)	0.8	341.413
1336	340.017(8)	0.0040(6)	0.8	340.018
1337	335.732(8)	0.0049(9)	0.8	335.732
1338	331.2143(15)	0.590(35)	0.8	331.2151
1339	329.3920(35)	0.0154(25)	0.8	329.3928
1340	325.0734(20)	0.0340(18)	0.7	325.0741
1341	324.0295(30)	0.0161(10)	0.7	324.0302
1342	319.831(8)	0.0043(9)	0.7	319.832
1343	315.6432(40)	0.0058(6)	0.7	315.6439
1344	310.516(12)	0.0064(9)	0.7	310.517
1345	309.225(6)	0.0106(8)	0.7	309.226
1346	303.779(5)	0.649(38)	0.6	303.780
1347	298.696(34)	0.0021(6)	0.6	298.696
1348	297.208(8)	4.14(22)	0.6	297.208
1349	289.8781(41)	0.0250(27)	0.6	289.879
1350	286.5694(28)	0.0604(35)	0.6	286.5700

TABLE 4.1 CONTINUED

NO.	E_γ(ERROR) IN KEV	I_γ (ERROR) /100N	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV
1351	283.496(17)	0.0034(6)	0.6	283.496
1352	281.6329(21)	1.49(9)	0.6	281.6335
1353	280.761(21)	0.0031(6)	0.5	280.762
1354	279.844(14)	0.0095(19)	0.5	279.844
1355	279.1891(42)	0.0183(17)	0.5	279.1896
1356	277.5185(26)	0.0473(28)	0.5	277.5190
1357	275.4412(30)	0.0361(27)	0.5	275.4417
1358	274.3650(34)	0.0236(14)	0.5	274.3655
1359	270.8421(21)	0.220(16)	0.5	270.8426
1360	266.8674(27)	0.0418(23)	0.5	266.8679
1361	264.649(17)	0.0049(20)	0.5	264.650
1362	249.7821(17)	6.71(45)	0.4	249.7825
1363	247.7639(31)	0.0213(17)	0.4	247.7643
1364	243.4097(18)	0.0551(46)	0.4	243.4101
1365	240.638(11)	0.0111(11)	0.4	240.638
1366	239.9939(14)	0.180(20)	0.4	239.9943
1367	238.9887(30)	24.3(12)	0.4	238.9891
1368	235.271(8)	0.0066(8)	0.4	235.271
1369	231.4218(13)	1.53(9)	0.4	231.4222
1370	225.435(8)	0.0098(13)	0.4	225.435
1371	222.928(33)	0.0065(15)	0.3	222.929
1372	216.704(25)	0.0033(9)	0.3	216.704
1373	216.557(9)	0.0070(10)	0.3	216.558
1374	207.522(22)	0.0044(11)	0.3	207.522
1375	200.4478(24)	3.26(14)	0.3	200.4481
1376	189.6592(20)	0.0235(34)	0.3	189.6595
1377	187.3201(26)	0.105(8)	0.2	187.3203
1378	186.916(19)	0.0055(14)	0.2	186.916
1379	181.114(12)	0.0087(43)	0.2	181.114
1380	180.7432(28)	0.415(16)	0.2	180.7435
1381	177.286(9)	0.0077(10)	0.2	177.286
1382	165.3018(36)	0.0185(41)	0.2	165.3020
1383	165.0360(24)	0.0360(22)	0.2	165.0362
1384	161.9194(7)	12.4(6)	0.2	161.9196
1385	159.4585(21)	0.0502(23)	0.2	159.4587
1386	141.5554(19)	0.0645(23)	0.1	141.5555
1387	141.307(13)	0.0065(12)	0.1	131.308
1388	139.2242(14)	9.0(6)	0.1	139.2243
1389	125.8415(7)	1.09(6)	0.1	125.8416
1390	87.8656(8)	3.31(38)	0.05	86.8657
1391	81.1848(14)	0.0085(22)	0.05	81.1848
1392	62.1492(7)	0.0468(48)	0.03	62.1492
1393	51.3611(7)	0.48(5)	0.02	51.3611

TABLE 4.2 CONVERSION ELECTRON LINES IN THE 76SE(n,γ) REACTION
THE FIRST FOUR COLUMNS ARE GAMMA-RAY DATA

E_γ (TRANS.) KEV	ERROR KEV	I_γ /100N	ERROR %	E_e^* KEV	ERROR KEV	I_e /100N	ERROR %	SHELL	CONVERSION COEFF.	ERROR %	MULTIPOL. & COMMENTS
755.387	0.003	2.69	5.	742.68	0.07	1.5E-3	51.	K	-------	---	(M1)
645.824	0.002	1.43	4.	633.18	0.07	1.3E-3	27.	K	8.9E-4	27.	M1
578.851	0.005	3.30	9.	566.198	0.021	3.65E-3	11.	K	1.10E-3	14.	M1
520.632	0.003	14.3	9.	507.972	0.008	1.76E-2	4.	K	1.24E-3	10.	M1
				518.973	0.025	1.56E-3	15.	L1	1.10E-4	18.	
518.171	0.004	3.26	9.	505.513	0.013	4.04E-3	8.	K	1.24E-3	12.	M1
484.539	0.006	1.34	14.	471.895	0.040	2.37E-3	12.	K	1.77E-3	18.	M1
439.452	0.005	3.72	12.	426.737	0.007	1.42E-2	5.	K	3.81E-3	13.	E2
331.215	0.001	0.590	5.	318.526	0.012	3.96E-3	12.	K	6.71E-3	13.	M1+E2 $\delta^2=1.0\pm0.5$
303.779	0.005	0.649	5.	291.116	0.013	3.50E-3	10.	K	5.40E-3	12.	M1
297.208	0.008	4.14	5.	284.549	0.007	2.31E-2	3.	K	5.57E-3	6.	$M1_2$(+E2)
				295.541	0.020	3.43E-3	16.	L1	8.3E-4	17.	$\delta=0.04\pm0.08$
281.633	0.002	1.49	5.	268.988	0.015	1.03E-3	5.	K	6.95E-3	7.	M1(+E2)$\delta^2=9\pm6\times$E-2
249.782	0.002	6.71	6.	237.120	0.004	1.70E-1	2.	K	2.53E-2	6.	E2
				248.140	0.008	1.74E-2	3.	L1	2.60E-3	7.	
				248.362	0.021	3.49E-3	18.	L2+L3	5.2E-4	19.	
				249.546	0.017	3.81E-3	14.	M TOTAL	5.7E-4	16.	
238.989	0.003	24.3	4.	226.324	0.004	0.260	2.	K	1.02E-2	5.	$M1_2$+E2
				237.336	0.005	2.58E-2	2.	L1	1.06E-3	5.	$\delta=0.065\pm0.023$
				237.53	0.06	2.8E-3	51.	L2+L3	-------	---	
				238.749	0.012	4.23E-3	10.	M TOTAL	1.74E-4	11.	
231.422	0.001	1.53	5.	218.753	0.006	1.60E-2	11.	K	1.05E-2	13.	M1(+E2)
200.448	0.002	3.26	4.	187.787	0.010	4.74E-2	3.	K	1.46E-2	5.	M1(+E2)
				198.774	0.010	6.77E-3	10.	L1	2.08E-3	11.	
180.743	0.003	0.415	3.	168.086	0.010	7.91E-3	14.	K	1.91E-2	14.	M1
161.920	0.001	12.4	4.	149.266	0.003	9.48	2.	K	0.764	5.	E3
				160.269	0.003	0.890	2.	L1	7.17E-2	5.	
				160.466	0.003	0.691	6.	L2+L3	5.82E-2	7.	
				161.696	0.008	0.146	22.	M TOTAL	1.18E-2	22.	

* RECOIL ENERGY IS ADDED

TABLE 4.2 CONTINUED

E_γ(TRANS.) KEV	ERROR KEV	I_γ /100N	ERROR %	E_e* KEV	ERROR KEV	I_e /100N	ERROR %	SHELL	CONVERSION COEFF.	ERROR %	MULTIPOL. & COMMENTS
139.224	0.001	8.97	6.	126.565	0.003	0.942	2.	K	0.105	7.	M1+E2
				137.571	0.004	8.40E-2	4.	L1	9.36E-3	8.	δ^2=0.553±0.041
				137.774	0.003	2.22E-2	8.	L2+L3	2.48E-3	10.	
				139.008	0.004	1.72E-2	4.	M TOTAL	1.91E-3	8.	
125.842	0.001	1.09	4.	113.186	0.002	0.274	2.	K	0.252	5.	E2
				124.179	0.005	3.20E-2	5.	L1	2.94E-2	7.	
				124.398	0.009	1.40E-2	12.	L2+L3	1.32E-2	13.	
87.866	0.001	3.3	11.	75.203	0.001	0.432	2.	K	0.130	11.	E1+M2
				86.205	0.004	4.99E-2	5.	L1	1.51E-2	12.	δ^2=0.031± 0.010
				86.413	0.013	9.8E-3	14.	L2+L3	2.97E-3	18.	
51.361	0.001	0.475	10.	38.706	0.002	0.295	3.	K	0.622	11.	E1(+M2?)

ELECTRON BINDING ENERGIES IN EV : K=12657.8,L1=1653.9,L2=1476.2,L3=1435.8,
TAKEN FROM REF./2/ M1=231.5,M2=168.2,M3=161.9

* RECOIL ENERGY IS ADDED

TABLE 5 LOW ENERGY Y-RAYS IN THE 77SE(n,Y) REACTION

E_γ (ERROR) IN KEV	RECOIL ENERGY IN EV	TRANSITION ENERGY IN KEV	COMMENTS
1995.93(34)	28.	1995.96	78SE
1721.10(20)	21.	1721.12	
1308.59(5)	12.	1308.60	78SE
1240.131(29)	11.	1240.142	78SE
1229.15(11)	11.	1229.16	
1199.38(13)	10.	1199.39	78SE
1144.959(17)	9.1	1144.968	78SE
889.099(12)	5.5	889.105	78SE
884.861(15)	5.5	884.867	78SE
828.189(13)	4.8	828.194	78SE
778.207(29)	4.2	778.211	
733.91(19)	3.8	733.92	
716.68(5)	3.6	716.68	
694.916(4)	3.4	694.919	78SE
687.254(6)	3.3	687.257	78SE
651.573(11)	3.0	651.576	
613.725(3)	2.6	613.728	78SE
570.903(9)	2.3	570.905	78SE
545.300(13)	2.1	545.302	78SE
497.294(7)	1.7	497.295	78SE
354.735(25)	0.9	354.735	

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